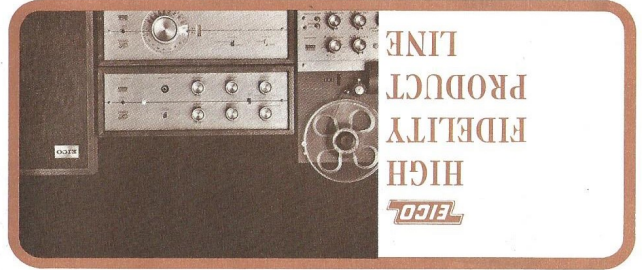




■ classic series ■ st series ■ standard series ■ speakers



EICO kits and factory wired

EICO Electronic Instrument Company, Inc.
131-01 39th Avenue, Flushing, N. Y. 11352

PRINTED U.S.A.

Introducing
the new

**CLASSIC
SERIES**

new in styling:

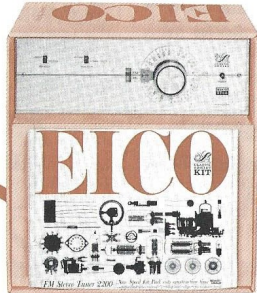
brushed aluminum panels
upper half silver, lower half pale gold.

new in engineering:

greater control simplicity, longer life, more reliability,
with highest quality standards.

new kit packaging:

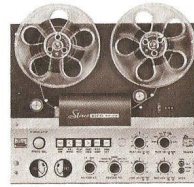
sockets, jacks, terminal boards, transformers premounted;
simple straightforward wiring; wide-open layouts; set up,
shut down easily, with no parts to go astray; 2-color diagrams.



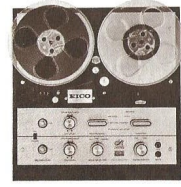
TAPE RECORDERS

RP100 TRANSISTORIZED STEREO/MONO 4-TRACK TAPE DECK Experts have compared this tape deck favorably with professional studio models—and here are some of the reasons why: Professional hysteresis-synchronous capstan motor; 24 stator slots for ultra-smooth, vibrationless operation • 2 take-up and rewind reel motors, extra-powered for effortless operation • Instantaneous extra power provided to take-up reel motor at start minimizes tape bounce, for near-perfect stop-and-go operation • Automatic end-of-tape stop switch cuts off take-up reel motor power • Playback preamps remain "on" during stop-standby mode to permit cueing and adjustment of recording level • Shock-absorbent helical spring tape lifters practically eliminate tape bounce and head wear • Separate stereo ¼-track record and playback heads permit off-the-tape monitoring • Separate transistor stereo record and stereo playback amplifiers meet true high fidelity standards • Digital turns counter • Electrodynamic braking (DC applied to reel motors) • All-electric push-button transport control • Separate solenoids actuate pinch-roller and tape lifters • Mixing mic and line controls • Two recording level meters • Sound-on-sound recording selected on panel • Modular plug-in construction. *Wow and flutter:* under 0.15% RMS at 7½ IPS, under 0.2% RMS at 3¼ IPS. *Timing accuracy:* ±0.3% (±6 seconds in 30 minutes). *Frequency response:* ±2 db 30 cps to 15,000 cps at 7½ IPS, 55 db signal-to-noise ratio; ±2 db 30 cps to 10,000 cps at 3¼ IPS, 50 db signal-to-noise ratio. *Line inputs sensitivity:* 100 mv. *Mic inputs sensitivity:* 0.5 mv. 15% w. x 13% h. Kit \$299.95. Wired \$450.00. Carrying Case: \$29.95. Rack Mount \$9.95.

2400 3-MOTOR 4-TRACK STEREO/MONO TAPE DECK A new low-cost tape deck bearing every mark of quality found on models costing much more—including: 3 motors—two reel motors, one capstan motor with enclosed fan to stabilize winding temperature and torque. All are 4-pole shaded pole motors • Heavy gauge spring steel structural panel • Hardened stainless steel capstan shaft ground to within .00015" • Huge capstan flywheel, seamless neoprene drive belt, and constant hold-back tension on reel motors virtually eliminate wow, flutter, and vibration • Electro-dynamic braking • Digital turns counter • Automatic end of tape stop switch • No slurring or tape bounce disturbance at start of recording or playback • Amps at playback in standby mode to permit cueing and pre-setting of recording level • Dual electron-ray indicator tubes for stereo recording • Push-pull 70 kc oscillator. *Speeds:* 7½ and 3¼ ips fully equalized. *Max reel size:* 7 inches. *Heads:* 4-track erase and 4-track record/play; records 4-track stereo, 4-track mono; plays 4-track stereo, 2 and 4-track mono. *Rewind and Fast Forward Speed:* 1200 ft. in 45 seconds. *Frequency Response:* ±3 db 30 to 17,000 cps at 7½ ips, ±3 db 30 to 12,000 cps at 3¼ ips. *Wow and Flutter:* Under 0.2% at 7½ ips, under 0.3% at 3¼ ips. *Mic Sensitivity and Input Impedance:* 5mv, 5.6 megohms; *Line Input Sensitivity and Input Impedance:* 100 mv, 500K ohms. *Output Voltage and Output Impedance:* 0.7V average recording level, 8K ohms. *Size (HWD):* 12¾" x 12½" x 6½". *Weight:* 22 lbs. Both kit and wired unit include hand rubbed walnut base. Kit \$199.95. Wired \$269.95.



RP100



2400

CLASSIC SERIES

2536 FM-MULTIPLEX STEREO RECEIVER. Superb FM stereo tuner plus a virtually distortion-free 36-watt stereo amplifier, mounted on one compact chassis for convenience.

Tuner section: In the kit, the two most critical sections are supplied pre-wired and pre-aligned: (1) The front end, an ultrasensitive, low-noise unit of wide-band design, enclosed in plated steel for protection and shielding. (2) The IF strip, with 4 amplifier-limiter stages and an ultra-wide-band ratio detector for perfect limiting and flat frequency response. Sensitive bar-type electron-ray tuning indicator on the front panel helps you find the exact point in each broadcast channel where you will have the greatest sensitivity and lowest distortion. *IHF*M usable sensitivity: 3 μ v (30 db quieting), 1.5 μ v for 20 db quieting. *Sensitivity for phase locking (synchronization) in stereo:* 3 μ v. *Full limiting sensitivity:* 10 μ v. *IF bandwidth:* 280 kc at 6 db points. *Audio bandwidth at FM detector:* Flat to 53 kc discounting pre-emphasis. *IHF*M signal-to-noise ratio: 55 db. *IHF*M harmonic distortion: 0.6%. *Stereo harmonic distortion:* Less than 1.5%. *IHF*M capture ratio: 3 db. *Channel separation:* 30 db.

Amplifier section: Separate hum balance potentiometer for optimum hum suppression in each channel. High quality tone controls do not interact or affect loudness. Infinitely variable balance control permits compensation for any degree of unbalance. BLEND CONTROL provides variable cross-feeding for stereo headphones or full blend for vertical rumble cancellation in mono disc play. Blend circuit switched out entirely at the extreme ccw position. *Power:* 36 watts *IHF*M music, 28 watts continuous (total). *IM distortion (each channel):* 2% at 14 watts, 0.7% at 5 watts, 0.2% at 1 watt. *Harmonic distortion (each channel):* 0.6% at 10 watts, 40 cps-10 kc; 0.2% at 1 watt, 30 cps-20 kc. *IHF*M power bandwidth at rated continuous power, 1% harmonic distortion: 30 cps-20 kc. *Frequency response:* \pm 1 db, 15 cps-40 kc. *Speaker output:* 8 and 16 ohms. *Inputs:* Mag. phono or adapted ceramic phono, tuner, tape, auxiliary. *Sensitivity:* 2.3 mv phono, 250 mv others. *Noise:* 65 db down on phono, 80 db down on others. *Size (HWD):* 5 3/4" x 15 1/2" x 13 1/2". *Weight:* 25 lbs. **Kit, \$154.95. Wired, \$209.95**

2536-W8 FM-MX STEREO RECEIVER The 2536 supplied with two HFS-8 speaker systems **Kit, (2536 K8) \$229.95. Wired, (2536 W8) \$289.95.**

2036 36-WATT STEREO AMPLIFIER. Identical with amplifier section of 2536 Receiver plus speaker system switch that permits selection between two pairs of speaker systems, and stereo headphone jack. *Size (HWD):* 5 3/4" x 15 1/2" x 11 1/2". *Weight:* 21 lbs. **Kit, \$79.95. Wired, \$109.95**

2200 FM-MULTIPLEX STEREO TUNER. All the features and specifications of the tuner section of the 2536 Receiver. *Audio output is 1.5 volts. Size (HWD):* 5 3/4" x 15 1/2" x 11 1/2". *Weight:* 12 lbs. **Kit, \$92.50. Wired, \$119.95**

2050 50-WATT STEREO AMPLIFIER. With all the control facilities of the amplifier section of the 2536 Receiver, the 2050 offers 50 watts *IHF*M music power and 44 watts continuous power (total of both channels). In addition, the 2050 provides a 12 db per octave high frequency filter (switched), a speaker system switch that permits selection between two pairs of speaker systems, and a stereo headphone jack. *Power:* 50 watts *IHF*M music, 44 watts continuous (total). *IM distortion (each channel):* 2% at 22 watts, 0.2% at 5 watts, 0.1% at 2 watts. *Harmonic distortion (each channel):* 0.5% at 17 watts, 40 cps-20 kc; 0.3% at 5 watts, 30 cps-20 kc. *IHF*M power bandwidth at rated continuous power, 0.8% harmonic distortion: 30 cps-20 kc. *Frequency response:* \pm 1 db, 10 cps-40 kc. *Speaker outputs:* 8 and 16 ohms. *Inputs:* Magnetic phono or adapted ceramic phono, tuner, tape, auxiliary. *Sensitivity:* 1.7 mv phono, 190 mv others. *Noise:* 65 db down on phono, 80 db down on others. *Size (HWD):* 5 3/4" x 15 1/2" x 11 1/2". *Weight:* 25 lbs. **Kit, \$92.50. Wired, \$129.95.**

2080 80-WATT STEREO AMPLIFIER. With all the control facilities of the amplifier section of the 2536 Receiver, the 2080 offers 80 watts *IHF*M music power and 70 watts continuous power (total of both channels). In addition the 2080 provides 12 db per octave hi and lo filters (switched), and direct center speaker drive with a panel CENTER LEVEL CONTROL (Max. Hi, Med, Lo, and Off). *Power:* 80 watts *IHF*M, 70 watts continuous (total). *IM distortion (each channel):* 1.1% at 40 watts, 0.8% at 35 watts, declines continuously to 0.1% at low levels. *Harmonic distortion (each channel):* 0.5% at 35 watts, 30 cps-20 kc; 0.2% at 5 watts, 30 cps-20 kc. *IHF*M power bandwidth at rated continuous power, 1% harmonic distortion: 20 cps-20 kc. *Frequency response:* \pm 1 db, 10 cps-80 kc. *Speaker outputs:* 4, 8, and 16 ohms. *Inputs:* Magnetic phono or

adapted ceramic phono, tuner, tape, auxiliary. *Sensitivity:* 2.60 mv phono, 280 mv others. *Noise:* 65 db down on phono, 80 db on others. *Size (HWD):* 5 3/4" x 15 1/2" x 13 1/2". *Weight:* 40 lbs. **Kit, \$112.50. Wired, \$159.95**

2510 FM STEREO TUNER AMPLIFIER-SPEAKER SYSTEM. A complete hi-fi FM-stereo center—including a tuner amplifier with inputs for ceramic-crystal phono and tape recorder, and a matched pair of high fidelity 2-way speaker systems in oiled walnut cabinets. *IHF*M Stereo Tuner-Amplifier features a precise rotary tuning dial with illuminated readout, a bar-type electron-ray tuning and stereo program indicator, a 4-position input selector, a stereo program quick-check switch, and tone and loudness controls. Shielded control panel and mounting of circuit boards below the chassis eliminate interference and exposed voltage points when operated without cover. The front end, an ultrasensitive, low-noise unit of wide-band design is enclosed in plated steel for protection and shielding. Precise temperature compensation prevents drift without AFC, and indirect gear drive eliminates backlash and possible resulting microphony. The IF strip has four amplifier-limiter stages and an ultra wide-band ratio detector for perfect limiting and flat response.

Tuner: *IHF*M Usable Sensitivity: 3 μ v (30 db quieting), 1.5 μ v for 20 db quieting. *Sensitivity for Phase Locking (Synchronization) in Stereo:* 3 μ v. *Full Limiting Sensitivity:* 10 μ v. *IF Bandwidth at FM Detector:* Flat to 53 kc discounting pre-emphasis. *IHF*M Signal-to-Noise Ratio: 55 db. *IHF*M Harmonic distortion: 0.6%. *Stereo harmonic distortion:* Less than 1.5%. *IHF*M Capture ratio: 3 db. *Channel separation:* 30 db.

Amplifier: *Power:* 10 watts *IHF*M music, 8 watts continuous (total). *IHF*M Power bandwidth at rated continuous power, 1% harmonic distortion: 50 cps-15 kc. *IM distortion (each channel):* 2% at 14 watts, 0.7% at 5 watts, 0.2% at 1 watt, 2% at 2 watts. *Harmonic distortion (each channel):* 0.3% at 3/4 watt, 0.7% at 1/2 watt, 0.9% at 1 watt, 50 cps-20 kc; 0.7% at 2 watts, 60 cps-15 kc; 0.7% at 3 watts, 100 cps-10 kc; 0.8% at 4 watts, 200 cps-5 kc. *Frequency response:* \pm 1 db, 20 cps-40 kc. *Speaker outputs:* 8 ohms. *Damping factor:* 20. *Inputs:* Ceramic/crystal phono, tape, auxiliary. *Sensitivity:* 400 mv ceramic/crystal phono, 180 mv tape and auxiliary. *Noise:* 80 db down.

Speakers (two): Eico HFS-10's; for description and specs see SPEAKER section of this brochure. *Size (HWD):* (tuner/amp) 5 3/4" x 15 1/2" x 12" (speakers) 12 x 18 x 5 1/4" **Factory-wired, \$199.95** **EICO 2510-XS FM Stereo Tuner Amplifier.** Same as 2510, less speakers. **Wired, \$159.95** Transistorized magnetic phono cartridge pre-amp, TPA-1, **\$34.95**

2716 FM MONO 18-WATT RECEIVER WITH PAGING FACILITY.

An excellent, low-cost background music system and public address system complete in one package enables you to use FM programming as a low-cost, convenient source of background music. Includes a complete mono FM receiver with a mic stage and relay for paging and other public address uses. The tuner features the Classic Series front end (an ultra-sensitive, low-noise unit of wide-band design, enclosed in plated steel for protection and shielding); and an IF strip with 4 amplifier-limiter stages and a wide-band ratio detector for perfect limiting and flat frequency response. Pin-point tuning is facilitated by a precision rotary tuning dial with illuminated readout and a bar-type electron-ray tuning indicator. Standard 3/8"-27 thread mic connector, relay control socket, and mic level set all at rear of unit. Remote relay control switch at microphone permits silencing music for making announcements. Amplifier is provided with a variable treble cut control and a loudness control with switched bass compensation. **Speaker outputs include 25-volt line.**

Tuner: Antenna input: 800 ohms balanced. *IHF*M Usable Sensitivity: 3 μ v (30 db quieting) 1.5 μ v; for 20 db quieting. *Full limiting sensitivity:* 10 μ v. *IF bandwidth:* 280 kc at 6 db points. *Ratio detector bandwidths:* 1 mc peak-to-peak separation. *IHF*M signal-to-noise ratio: 55 db. *IHF*M harmonic distortion: 0.6%. *IHF*M capture ratio: 3 db. *Audio response:* \pm 1 db, 20 cps to 15 kc.

Amplifier: *Power:* 18 watts *IHF*M music, 14 watts continuous. *IM distortion:* 2% at 14 watts. *Harmonic distortion:* 0.6% at 10 watts, 40 cps to 10 kc; 0.2% at 1 watt, 30 cps to 20 kc. *IHF*M power bandwidth at rated continuous power, 1% harmonic distortion: 30 cps to 20 kc. *Frequency response:* \pm 1 db, 15 cps to 40 kc. *Inputs:* Phono (ceramic), tape, mic. *Outputs:* 8 ohms, 16 ohms, and 25 volt line (45 ohms). *Sensitivity:* 240 mv on phono, tape; 4 mv on mic. *Size (HWD):* 5 3/4" x 15 1/2" x 11 1/2". *Weight:* 17 lbs. **Factory wired, \$149.95**

2715 FM/MONO 18-WATT RECEIVER.

Identical with the EICO 2716 less paging facility. **Factory wired, \$129.95.**

CABINETS & COVERS OPTIONAL: Walnut WE-73, \$19.95; metal cover E-12 for 2536 & 2716, \$7.50 Walnut cabinet WE-72, \$19.95; metal cover E-11 for models 2036, 2200, 2050, 2510 & 2716, \$7.50

adapted ceramic phono, tuner, tape, auxiliary. *Sensitivity:* 2.60 mv phono, 280 mv others. *Noise:* 65 db down on phono, 80 db on others. *Size (HWD):* 5 3/4" x 15 1/2" x 13 3/8". *Weight:* 40 lbs. *Kit, \$112.50* Wired, **\$159.95**

2510 FM STEREO TUNER AMPLIFIER-SPEAKER SYSTEM. A complete hi-fi FM stereo center—including a tuner amplifier with inputs for ceramic-crystal phono and tape recorder, and a matched pair of high fidelity 2-way speaker systems in oiled walnut cabinets. FM Stereo Tuner-Amplifier features a precise rotary tuning dial with illuminated readout, a bar-type electron-ray tuning and stereo program indicator, a 4-position input selector, a stereo program quick-check switch, and tone and loudness controls. Shielded control panel and mounting of circuit boards below the chassis eliminate interference and exposed voltage points when operated without cover. The front end, an ultrasensitive, low-noise unit of wide-band design is enclosed in plated steel for protection and shielding. Precise temperature compensation prevents drift without AFC, and indirect gear drive eliminates backlash and possible resulting microphony. The IF strip has four amplifier-limiter stages and an ultra wide-band ratio detector for perfect limiting and flat response.

Tuner: IHFM Usable *Sensitivity:* 3 μ v (30 db quieting), 1.5 μ v for 20 db quieting. *Sensitivity for Phase Locking (Synchronization) in Stereo:* 3 μ v. *Full Limiting Sensitivity:* 10 μ v. *IF Bandwidth:* 280 kc at 6 db points. *Ratio Detector Bandwidth:* 1 mc peak-to-peak separation. *Audio Bandwidth at FM Detector:* Flat to 53 kc discounting pre-emphasis. *IHFM Signal-to-Noise Ratio:* 55 db. *IHFM Harmonic distortion:* 0.6%. *Stereo harmonic distortion:* Less than 1.5%. *IHFM Capture ratio:* 3 db. *Channel separation:* 30 db.

Amplifier: *Power:* 10 watts IHFM music, 8 watts continuous (total). *IHFM Power bandwidth at rated continuous power, 1% harmonic distortion:* 50 cps-15 kc. *IM distortion (each channel), 60 cps and 7 kc at 4:1:* 0.3% at 1/2 watt, 0.7% at 1 watt, 0.9% at 2 watts. *Harmonic distortion (each channel):* 0.3% at 1/2 watts, 50 cps-20 kc; 0.5% at 1 watt, 50 cps-20 kc; 0.7% at 2 watts, 60 cps-15 kc; 0.7% at 3 watts, 100 cps-10 kc; 0.8% at 4 watts, 200 cps-5 kc. *Frequency response:* \pm 1 db 20 cps-40 kc. *Speaker outputs:* 8 ohms. *Damping factor:* 20. *Inputs:* Ceramic/crystal phono, tape, auxiliary. *Sensitivity:* 400 mv ceramic/crystal phono, 180 mv tape and auxiliary. *Noise:* 80 db down.

Speakers (two): Eico HFS-10's; for description and specs see SPEAKER section of this brochure. *Size (HWD):* (tuner/ampl.) 5 3/4" x 15 1/2" x 12" (speakers) 12 x 18 x 5 1/4" *Factory-wired, \$199.95* **EICO 2510-XS FM Stereo Tuner Amplifier.** Same as 2510, less speakers. *Wired, \$159.95* Transistorized magnetic phono cartridge pre-amp, **TPA-1, \$34.95**

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Tuner: Antenna input: 300 ohms balanced. *IHFM Usable Sensitivity:* 3 μ v (30 db quieting) 1.5 μ v; for 20 db quieting. *Full limiting sensitivity:* 10 μ v. *IF bandwidth:* 280 kc at 6 db points. *Ratio detector bandwidths:* 1 mc peak-to-peak separation. *IHFM signal-to-noise ratio:* 55 db. *IHFM harmonic distortion:* 0.6%. *IHFM capture ratio:* 3 db. *Audio response:* \pm 1 db 20 cps to 15 kc.

Amplifier: *Power:* 18 watts IHFM music, 14 watts continuous. *IM distortion:* 2% at 14 watts. *Harmonic distortion:* 0.6% at 10 watts, 40 cps to 10 kc; 0.2% at 1 watt, 30 cps to 20 kc. *IHFM power bandwidth at rated continuous power, 1% harmonic distortion:* 30 cps to 20 kc. *Frequency response:* \pm 1 db 15 cps to 40 kc. *Inputs:* Phono (ceramic), tape, mic. *Outputs:* 8 ohms, 16 ohms, and 25 volt line (45 ohms). *Sensitivity:* 240 mv on phono, tape; 4 mv on mic. *Size (HWD):* 5 3/4" x 15 1/2" x 11 3/8". *Weight:* 17 lbs. *Factory wired, \$149.95*

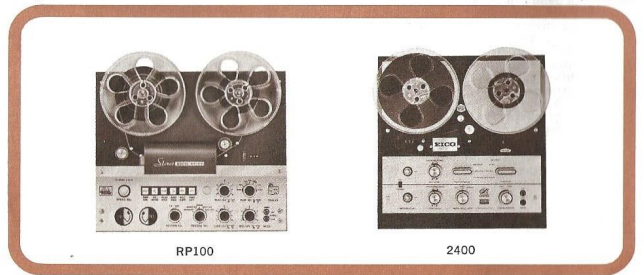
2715 FM/MONO 18-WATT RECEIVER. Identical with the EICO 2716 less paging facility. *Factory wired, \$129.95.*

CABINETS & COVERS OPTIONAL: Walnut WE-73, **\$19.95;** metal cover E-12 for 2536 & 2716, **\$7.50** Walnut cabinet WE-72, **\$19.95;** metal cover E-11 for models 2036, 2200, 2050, 2510 & 2716, **\$7.50**

TAPE RECORDERS

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2400 3-MOTOR 4-TRACK STEREO/MONO TAPE DECK A new low-cost tape deck bearing every mark of quality found on models costing much more—including: 3 motors—two reel motors, one capstan motor with enclosed fan to stabilize winding temperature and torque. All are 4-pole shaded pole motors • Heavy gauge spring steel structural panel • Hardened stainless steel capstan shaft ground to within .00015" • Huge capstan flywheel, seamless neoprene drive belt, and constant hold-back tension on reel motors virtually eliminate wow, flutter, and vibration • Electro-dynamic braking • Digital turns counter • Automatic end of tape stop switch • No slurring or tape bounce disturbance at start of recording or playback • Amps at playback in standby mode to permit cueing and pre-setting of recording level • Dual electron-ray indicator tubes for stereo recording • Push-pull 70 kc oscillator. *Speeds:* 7 1/2 and 3 3/4 ips fully equalized. *Max reel size:* 7 inches. *Heads:* 4-track erase and 4-track record/play; records 4-track stereo, 4-track mono; plays 4-track stereo, 2 and 4-track mono. *Rewind and Fast Forward Speed:* 1200 ft. in 45 seconds. *Frequency Response:* \pm 3 db 30 to 17,000 cps at 7 1/2 ips, \pm 3 db 30 to 12,000 cps at 3 3/4 ips. *Wow and Flutter:* Under 0.2% at 7 1/2 ips, under 0.3% at 3 3/4 ips. *Mic Sensitivity and Input Impedance:* 5mv, 5.6 megohms; *Line Input Sensitivity and Input Impedance:* 100 mv, 500K ohms. *Output Voltage and Output Impedance:* 0.7V average recording level, 8K ohms. *Size (HWD):* 12 3/4" x 12 3/4" x 6 1/2". *Weight:* 22 lbs. *Both kit and wired unit include hand rubbed walnut base. Kit \$199.95.* *Wired \$269.95.*



RP100

2400

EICO ST SERIES



ST97 FM-MULTIPLEX STEREO TUNER. All critical component assemblies—the front end and the 4 IF's through to the ratio detector supplied pre-wired and pre-aligned: **The Front End:** Wide-band printed circuit. Rugged plated steel housing for protection and shielding. Precise temperature-compensation for freedom from drift even with AFC defeated. **The IF Strip:** Four IF amplifier-limiter stages and an ultra-wide-band ratio detector for perfect limiting and flat frequency response. **Zero phase-shift, filterless detection circuit** eliminates loss of separation due to phase-shift in the stereo sub-channel before recovery. Self-limiting 19 kc amplifier stage provides outstanding sensitivity on weak signals but prevents overloading on strong signals. **IHF M usable sensitivity:** 3 μ v (30 db quieting), 1.5 μ v for 20 db quieting. **Sensitivity for phase-locking (Synchronization) in stereo:** 2.5 μ v. **Full limiting sensitivity:** 10 μ v. **IF bandwidth:** 280 kc at 6 db points. **Ratio detector bandwidth:** 1 mc peak-to-peak separation. **Audio bandwidth at FM detector:** Flat to 53 kc discounting pre-emphasis. **IHF M signal-to-noise ratio:** -55 db. **IHF M harmonic distortion:** 0.6%. **Stereo harmonic distortion:** Less than 1.5%. **IHF M IM distortion:** 0.1%. **Output audio frequency response:** ± 1 db 20 cps-15 kc. **IHF M capture ratio:** 3 db. **Channel separation:** 30 db. **Audio output:** 0.8 volt. **Size (HWD):** 5 $\frac{3}{8}$ " x 15 $\frac{1}{8}$ " x 11 $\frac{3}{8}$ ". **Weight:** 17 lbs. **Kit, \$99.95. Wired, \$149.95. Includes Metal Cover and FET.**

ST70 70-WATT INTEGRATED STEREO AMPLIFIER. Separate pairs of inputs for preamplified tape, tape head, mag. phono, cartridge (or ceramic cartridge with magnetic input adaptor), and tuner. Controls include selector switch; tape speed equalizer and tape monitor switches; separate level and balance controls; balance check switch; scratch and rumble filters; loudness/level switch; speaker-phase reversal switch; and feedback-type bass and treble controls. Direct center speaker drive. Power amplifiers employ cathode-coupled, phase-inverter circuitry. **Frequency response:** $\pm 1\frac{1}{2}$ db, 10-50,000 cps; **IM distortion:** 1% at 70 watts. **Harmonic distortion:** Less than 1% from 25 to 20,000 cps within 1 db of 70 watts. **Size (HWD):** 5 $\frac{3}{8}$ " x 15 $\frac{1}{8}$ " x 15". **Kit, \$99.95. Wired, \$149.95. Includes Metal Cover**

ST40 40-WATT INTEGRATED STEREO AMPLIFIER. Separate pairs of inputs for preamplified tape, tape head, mag. phono cartridge (or ceramic cartridge with magnetic input adaptor), and tuner. Controls include selector switch, tape monitor switch; separate level and balance controls; balance check switch; scratch and rumble filters; loudness/level switch; feedback-type bass and treble controls. Direct center drive. **Frequency Response:** ± 1 db 12-25,000. **IM Distortion:** 1% at 40 watts. **Harmonic Distortion:** Less than 1% 40-25,000 cps within 1 db of 40 watts. **Size (HWD):** 5 $\frac{3}{8}$ " x 15 $\frac{1}{8}$ " x 13 $\frac{1}{8}$ ". **Kit, \$79.95. Wired, \$129.95. Includes Metal Cover.**

ST84 STEREOPHONIC DUAL PREAMPLIFIER. Delivers the ultimate in both audio quality and system flexibility. For all functions of the preamp all types of distortion are down to 0.05% at all levels. **Controls include:** Input Selector; Mode Selector; Balance Control; Level Control; High & Low Frequency Filter Switches; Tape Equalization Switch; Tape Monitor Switch; Loudness Switch. **Frequency response:** ± 0.3 db, 5-25,000 cps. **Harmonic distortion (20-20,000 cps):** 0.06% at 2v out. **IM distortion (60 and 7,000) cps at 4:1:** 0.04% at 2v out. **Hum and Noise:** Mag. Phono A, Mag. Phono B, Tape Head: -65 db at 10 mv in; **Tuner, Tape, Aux.:** -75 db at 0.5V in. **Sensitivity (minimum input for 1V out at 1 kc):** Mag. Phono A, Mag. Phono B: 1.6 mv; Tape Head: 1 mv; Microphone: 2.8 mv; high level inputs (tuner, tape, aux.): 0.17 V. **Tone controls:** ± 15 db at 50 cps; ± 15 db at 10 kc. **Size (HWD):** 5 $\frac{3}{8}$ " x 15 $\frac{1}{8}$ " x 8 $\frac{3}{8}$ ". **Shipping weight:** 9 lbs. **Kit, \$59.95. Wired, \$89.95. Includes Metal Cover.**

ST96 FM-AM STEREO TUNER. Superb, separate AM and FM Tuners on one chassis. **Both Tuners Feature:** Pre-wired, pre-aligned RF and IF sections • Precision, pre-wired electronic traveling tuning indicators • Sliderule dials • Smooth flywheel tuning • Low interstation noise. **FM Tuner Features:** Switched AFC • AGC • Stabilized low limiting threshold assuring excellent performance from weaker signals • Broadband ratio detector for improved capture ratio and easier tuning • Output for connection to EICO MX99 FM MULTIPLEX

EICO STANDARD SERIES

HF85 STEREOPHONIC DUAL PREAMPLIFIER. Virtually no distortion, superb tone control action. All essential switching and control facilities for stereo or mono listening. Inputs for magnetic phono, tape head, microphone, tuner, tape recorder, and other sources. Panel selection of either 7 $\frac{1}{2}$ or 3 $\frac{3}{8}$ IPS tape speed equalization. Independent level, bass, and treble controls in each channel may be operated separately or together. Variable crossover tone control action permits boost or cut at extremes of range without affecting midrange. **Frequency response:** ± 0.3 db 5-200,000 cps at any level up to 3V RMS out. (Measured from high level inputs with level controls set at maximum and tone controls electrically flat). **Sensitivity (input for 2V RMS output at 1000 cps):** Mag. Phono—1 mv; Microphone—1 mv; Tape Head—0.5 mv; High Level Inputs—0.17V. **Hum and Noise:** Mag. Phono—60 db; Microphone—60 db; Tape Head—50 db; High Level Inputs—75 db. **Harmonic distortion (20-20,000 cps):** 0.1% at 3V RMS out; 0.15% at 5V RMS out. **IM distortion (60 and 7000 cps at 4:1):** 0.04% for 2.0V out. **Tone control range:** ± 15 db at 50 cps. ± 15 db at 50 cps. 15 db at 10 kc. **Size:** 3 $\frac{3}{8}$ " high x 12" wide x 8 $\frac{3}{8}$ " deep. **Weight:** 10 lbs. **Kit, \$39.95. Wired, \$64.95. Includes Metal Cover.**

HF87 70-WATT STEREO POWER AMPLIFIER. One of the finest stereo amplifiers available, regardless of price. Employs the thoroughly proven cathode coupled phase inverter driven circuit, preceded by a direct-coupled voltage amplifier. Because the common power supply for the two amplifiers exhibits very good regulation, signal conditions in one amplifier have negligible effect on the operating conditions of the other. To insure long life for the silicon diode rectifiers, electrolytics, and tubes, a surgistor is included to limit the starting surge currents. Service selector switch on the chassis permits choice of stereo or mono. Input level controls permit adjustment of sensitivity. **Frequency response:** ± 0.5 db 5-100,000 cps. **IM distortion (60 & 7000 cps at 4:1):** Less than 1% at 70W. **Harmonic distortion:** Less than 1% from 20 to 20,000 cps within 1 db of 70W. **Size (HWD):** 6" x 15" x 11". **Kit, \$74.95. Wired, \$114.95. Matching Enclosure E-8, \$4.50.**

HF89 100-WATT STEREO DUAL POWER AMPLIFIER. The foundation of a top-quality audio system is necessarily a top-quality power amplifier. With present-day less efficient speaker systems, top quality has become strongly associated with high power obtained fully and without audible distortion across the full audio spectrum. In the HF89 we have pursued these goals down to the very end—to the point where there is nothing more that we can do to improve the quality. We have never offered a more thoroughly excellent amplifier, nor one which is more clearly a best buy in the field. **Meets or exceeds every professional criterion for a power amplifier of this power rating. Less than 0.1% IM distortion at normal listening levels with present day inefficient speaker systems. Less than 0.5% distortion at 100 RMS watts out (continuous sine-wave power). Full-rated 100 RMS watts undistorted from 20 to 20,000 cps. Undistorted half-power points below 15 cps and above 100,000 cps. Frequency response:** ± 0.5 db 5-100,000 cps. **Sensitivity:** 0.55V for full output. **Hum:** Better than 90 db below full output. **Size (HWD):** 6" x 15" x 11". **Kit, \$99.50. Wired, \$139.50. Matching Enclosure E-8, \$4.50.**

HF90A FM TUNER. The most popular FM tuner kit ever made. Features include a pre-wired, prealigned RF section plus prealigned IF transformers, a slide-rule dial with effortless flywheel tuning, and a travelling tuning eye indicator. Also important are a stabilized low limiting threshold for excellent performance from weaker signals, and a broadband ratio detector for easier tuning. Output for connection to EICO MX99 MULTIPLEX AUTODAPTER. **Sensitivity:** 1.5 μ v for 20 db quieting. **Frequency response:** 20 to 20,000 cps ± 1 db. **Selectivity:** 260 kc IF bandwidth (60 db down). **Output:** cathode follower and multiplex. For 10 μ v input with 75 kc deviation, an audio output of 1.0 volt is obtained. **Hum:** 60 db below 1 volt. **Size (HWD):** 3 $\frac{3}{8}$ " x 12" x 8 $\frac{3}{8}$ ". **Weight:** 10 lbs. **Kit, \$44.95. Wired, \$69.95. Metal Cover E8: \$3.95. Includes FET.**

EICO STANDARD SERIES

HF85 STEREOPHONIC DUAL PREAMPLIFIER. Virtually no distortion, superb tone control action. All essential switching and control facilities for stereo or mono listening. Inputs for magnetic phono, tape head, microphone, tuner, tape recorder, and other sources. Panel selection of either 7% or 3% IPS tape speed equalization. Independent level, bass, and treble controls in each channel may be operated separately or together. Variable crossover tone control action permits boost or cut at extremes of range without affecting midrange. *Frequency response:* ± 0.3 db 5-200,000 cps at any level up to 3V RMS out. (Measured from high level inputs with level controls set at maximum and tone controls electrically flat). *Sensitivity (input for 2V RMS output at 1000 cps):* Mag.-Phono—1 mv; Microphone—1 mv; Tape-Head—0.5 mv; High Level Inputs—0.17V. *Hum and Noise:* Mag.-Phono—60 db; Microphone—60 db; Tape-Head—50 db; High Level Inputs—75 db. *Harmonic distortion (20-20,000 cps):* 0.1% at 3V RMS out; 0.15% at 5V RMS out. *IM distortion (60 and 7000 cps at 4:1):* 0.04% for 2.0V out. *Tone control range:* ± 15 db at 50 cps. ± 15 db at 50 cps. 15 db at 10 kc. *Size (HWD):* 3 3/4" high x 12" wide x 8 1/4" deep. *Weight:* 10 lbs. Kit, \$39.95. Wired, \$64.95. Includes Metal Cover.

HF87 70-WATT STEREO POWER AMPLIFIER. One of the finest stereo amplifiers available, regardless of price. Employs the thoroughly proven cathode coupled phase inverter driven circuit, preceded by a direct-coupled voltage amplifier. Because the common power supply for the two amplifiers exhibits very good regulation, signal conditions in one amplifier have negligible effect on the operating conditions of the other. To insure long life for the silicon diode rectifiers, electrolytics, and tubes, a surgeistor is included to limit the starting surge currents. Service selector switch on the chassis permits choice of stereo or mono. Input level controls permit adjustment of sensitivity. *Frequency response:* ± 0.5 db 5-100,000 cps. *IM distortion (60 & 7000 cps at 4:1):* Less than 1% at 70W. *Harmonic distortion:* Less than 1% from 20 to 20,000 cps within 1 db of 70W. *Size (HWD):* 6" x 15" x 11". Kit, \$74.95. Wired, \$114.95. Matching Enclosure E-8, \$4.50.

HF89 100-WATT STEREO DUAL POWER AMPLIFIER. The foundation of a top-quality audio system is necessarily a top-quality power amplifier. With present-day less efficient speaker systems, top quality has become strongly associated with high power obtained pursued these goals down to the very end—to the point where there is nothing more that we can do to improve the quality. We have never offered a more thoroughly excellent amplifier, nor one which is more clearly a best buy in the field.

Meets or exceeds every professional criterion for a power amplifier of this power rating. Less than 0.1% IM distortion at normal listening levels with present day inefficient speaker systems. Less than 0.5% distortion at 100 RMS watts out (continuous sine-wave power). Full-rated 100 RMS watts undistorted from 20 to 20,000 cps. Undistorted half-power points below 15 cps and above 100,000 cps. Frequency response: ± 0.5 db 5-100,000 cps. Sensitivity: 0.55V for full output. Hum: Better than 90 db below full output. Size (HWD): 6" x 15" x 11". Kit, \$99.50. Wired, \$139.50. Matching Enclosure E-8, \$4.50.

HF90A FM TUNER. The most popular FM tuner kit ever made. Features include a pre-wired, prealigned RF section plus prealigned IF transformers, a slide-rule dial with effortless flywheel tuning, and a travelling tuning eye indicator. Also important are a stabilized low limiting threshold for excellent performance from weaker signals, and a broadband ratio detector for easier tuning. Output for connection to EICO MX99 MULTIPLEX AUTODAPTER. *Sensitivity:* 1.5 μ v for 20 db quieting. *Frequency response:* 20 to 20,000 cps ± 1 db. *Selectivity:* 200 kc IF bandwidth (60 db down). *Output:* cathode follower and multiplex. For 10 μ v input with 75 kc deviation, an audio output of 1.0 volt is obtained. *Hum:* 60 db below 1 volt. *Size (HWD):* 3 3/4" x 12" x 8 1/4". *Weight:* 10 lbs. Kit, \$44.95. Wired, \$69.95. Metal Cover E3: \$3.95. Includes PET.

HFT94 AM TUNER. Features a choice of wide (to 14 kc) or narrow (to 7 kc) bandpass, the former for the highest fidelity available on AM, the latter for pulling in weaker or more distant stations. The tuned RF stage and built-in ferrite loop antenna help provide sufficiently high selectivity and sensitivity so that very little signal is required to achieve acceptable signal-to-noise ratio. A high Q filter eliminates 10 kc whistle while reducing response by no more than 3 db at 9 kc. *Typical sensitivity:* 3 μ v at 30% mod. for 1.0 output, 20 db S/N. *Overall selectivity:* (Wide) 14 kc at -6 db, (Narrow) 7 kc at -6 db. *Frequency response:* (Wide) 20-9000 cps at -3 db, (Narrow) 20-5000 cps at -3 db. *Image rejection:* 58 db. *Hum level:* 60 db below output with 3 μ v input, 30% modulation (1.0 volt). *Distortion:* Less than 1% harmonic distortion at 100% modulation. *Output:* Low impedance plate follower. Extra recording output. *Size (HWD):* 3 3/4" x 12" x 8 1/4". *Weight:* 12 lbs. Kit, \$39.95. Wired, \$65.95. Incl. Metal Cover and FET.

HFT92 FM/AM TUNER. Combines, on one chassis, the renowned HFT90 FM Tuner with excellent AM tuning facilities. Output for connection to EICO MX99 MULTIPLEX AUTODAPTER. *Sensitivity:* 20 μ v for 0.8v output with 15 db S/N. *Selectivity (IF Bandwidth):* 8 kc at 6 db. *Antenna input:* Ferrite Rod; terminals for external antennas provided. *Frequency response:* 20-5000 cps ± 3 db. *Hum:* 60 db below 1 volt. *Output:* Min. output of 0.8 volt with 20 μ v input, 30% modulation. *Image rejection:* 40 db. *Total harmonic distortion:* Below 2% up to 70% modulation. NOTE: Specs apply to AM only; FM same as HFT90. Kit, \$59.95. Wired, \$94.95. Includes Metal Cover and FET.

HF12 12-WATT WILLIAMSON-TYPE INTEGRATED MONO-AMPLIFIER. The HF12 is a true high fidelity 12-watt integrated amplifier that provides complete "front end" facilities and true high fidelity performance of such excellence that we recommend it unreservedly for any medium-power high fidelity application. Inputs for mag. phono, tape head, tuner, tape recorder, or other sources. *Rated output:* 12 watts continuous, 25 watts peak. *IM distortion (60 & 6000 cps at 4:1):* 1.3% at 12W; 0.5% at 6W; 0.3% at 4W. *Frequency response:* 1W ± 0.5 db 12 cps - 75 kc; 12W: ± 0.5 db 25 cps - 20 kc. *Harmonic distortion:* 20 cps: 2% at 4.2W; 1/2% at 2.5W; 30 cps: 2% at 11W; 1/2% at 6.3W; 40 cps: 1% at 12W; 1/2% at 9.3W; 2000 cps: 1/2% at 12W; 10 kc: 1% at 10W; 1/2% at 6W. *Hum & Noise level (below 12W):* mag. phono - 60 db; tape head - 50 db; tuner, auxiliary - 75 db. *Speaker outputs:* 4, 8, and 16 ohms. *Weight:* 15 lbs. *Size:* 3 3/4" x 12" x 8 1/4". Kit, \$39.95. Wired, \$59.95. Includes Metal Cover.

HF20 20-WATT WILLIAMSON-TYPE INTEGRATED MONO-AMPLIFIER. The HF20 employs an output transformer capable of handling far in excess of its 20 watts rated power, a full Williamson power amplifier circuit, and the finest preamplifier-control facilities. It has become established as the outstanding value in amplifiers of this power class. *Rated output:* 20 watts (34 watts peak). *IM distortion:* (60 & 60,000 cps at 4:1): 1.3% at 20W. *Harmonic distortion:* below 1% 20-20,000 cps within 1 db of 20W. *Frequency response:* ± 0.5 db 15-30,000 cps at any level to 20W. *Hum & Noise level:* Mag. Phono: 60 db below 20w (RIAA, max-gain, and tone controls "flat" positions); Tuner, etc.: 75 db below 20w (max-gain, and tone controls at "flat" positions). *Tone control range:* ± 15 db at 60 cps; and ± 15 db at 10 kc. *Size (HWD):* 8 1/2" x 15" x 10". *Weight:* 24 lbs. Kit, \$49.95. Matching Enclosure E-1, \$4.50.

AF4 8-WATT ECONOMY STEREO INTEGRATED AMPLIFIER. Engineered to provide true high fidelity quality at power levels adequate to drive high efficiency loudspeakers to concert volume. Contains two highly fed-back, 4W amplifiers preceded by input selection, mode of operation, tone and level control facilities to insure complete flexibility for either stereo or mono operation. The feedback level around each power amplifier is 27 db, which results in harmonic and IM distortion figures that fall within high fidelity standards at average listening levels. Kit, \$38.95. Wired, \$64.95. Includes Metal Cover and FET.

EICO ST SERIES



ST97 FM-MULTIPLEX STEREO TUNER. All critical component assemblies—the front end and the 4 IF's through to the ratio detector supplied pre-wired and pre-aligned. **The Front End:** Wide-band printed circuit. Rugged plated steel housing for protection and shielding. Precise temperature-compensation for freedom from drift even with AFC defeated. **The IF Strip:** Four IF amplifier-limiter stages and an ultra-wide-band ratio detector for perfect limiting and flat frequency response. **The Stereo Demodulator:** Ten stages. Zero phase-shift, filterless detection circuit eliminates loss of separation due to phase-shift in the stereo sub-channel before recovery. Self-limiting 19 kc amplifier stage provides outstanding sensitivity on weak signals but prevents overloading on strong signals. **IHF M usable sensitivity:** 3 μ v (30 db quieting), 1.5 μ v for 20 db quieting. **Sensitivity for phase-locking (Synchronization) in stereo:** 2.5 μ v. **Full limiting sensitivity:** 10 μ v. **IF bandwidth:** 280 kc at 6 db points. **Ratio detector bandwidth:** 1 mc peak-to-peak separation. **Audio bandwidth at FM detector:** Flat to 53 kc discounting pre-emphasis. **IHF M signal-to-noise ratio:** -55 db. **IHF M harmonic distortion:** 0.6%. **Stereo harmonic distortion:** Less than 1.5%. **IHF M IM distortion:** 0.1%. **Output audio frequency response:** \pm 1 db 20 cps-15 kc. **IHF M IM capture ratio:** 3 db. **Channel separation:** 30 db. **Audio output:** 0.8 volt. **Size (HWD):** 5 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ " x 11 $\frac{1}{2}$ ". **Weight:** 17 lbs. **Kit, \$99.95. Wired, \$149.95. Includes Metal Cover and FET.**

ST70 70-WATT INTEGRATED STEREO AMPLIFIER. Separate pairs of inputs for preamplified tape, tape head, mag. phono, cartridge (or ceramic cartridge with magnetic input adaptor), and tuner. Controls include selector switch; tape speed equalizer and tape monitor switches; separate level and balance controls; balance check switch; scratch and rumble filters; loudness/level switch; speaker-phase reversal switch; and feedback-type bass and treble controls. Direct center speaker drive. Power amplifiers employ cathode-coupled, phase-inverter circuitry. **Frequency response:** \pm 1/2 db, 10-50,000 cps; **IM distortion:** 1% at 70 watts. **Harmonic distortion:** Less than 1% from 25 to 20,000 cps within 1 db of 70 watts. **Size (HWD):** 5 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ " x 15". **Kit, \$99.95. Wired, \$149.95. Includes Metal Cover.**

ST40 40-WATT INTEGRATED STEREO AMPLIFIER. Separate pairs of inputs for preamplified tape, tape head, mag. phono cartridge (or ceramic cartridge with magnetic input adaptor), and tuner. Controls include selector switch, tape monitor switch; separate level and balance controls; balance check switch; scratch and rumble filters; loudness/level switch; feedback-type bass and treble controls. Direct center drive. **Frequency Response:** \pm 1 db 12-25,000. **IM Distortion:** 1% at 40 watts. **Harmonic Distortion:** Less than 1% 40-25,000 cps within 1 db of 40 watts. **Size (HWD):** 5 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ " x 13 $\frac{1}{2}$ ". **Kit, \$79.95. Wired, \$129.95. Includes Metal Cover.**

ST84 STEREOPHONIC DUAL PREAMPLIFIER. Delivers the ultimate in both audio quality and system flexibility. For all functions of the preamp all types of distortion are down to 0.05% at all levels. **Controls include:** Input Selector; Mode Selector; Balance Control; Level Control; High & Low Frequency Filter Switches; Tape Equalization Switch; Tape Monitor Switch; Loudness Switch. **Frequency response:** \pm 0.3 db, 5-25,000 cps. **Harmonic distortion (20-20,000 cps):** 0.06% at 2v out. **IM distortion (60 and 7,000) cps at 4:1:** 0.04% at 2v out. **Hum and Noise:** Mag. Phono A, Mag. Phono B, Tape Head: -65 db at 10 mv in; **Tuner, Tape, Aux.:** -75 db at 0.5V in. **Sensitivity (minimum input for 1V out at 1 kc):** Mag. Phono A, Mag. Phono B: 1.6 mv; Tape Head: 1 mv; Microphone: 2.8 mv; high level inputs (tuner, tape, aux.): 0.17 V. **Tone controls:** \pm 15 db at 50 cps; \pm 15 db at 10 kc. **Size (HWD):** 5 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ " x 8 $\frac{3}{4}$ ". **Shipping weight:** 9 lbs. **Kit, \$59.95. Wired, \$89.95. Includes Metal Cover.**

ST96 FM-AM STEREO TUNER. Superb, separate AM and FM Tuners on one chassis. **Both Tuners Feature:** Pre-wired, pre-aligned RF and IF sections • Precision, pre-wired electronic traveling tuning indicators • Sliderule dials • Smooth flywheel tuning • Low interstation noise. **FM Tuner Features:** Switched AFC • AGC • Stabilized low limiting threshold assuring excellent performance from weaker signals • Broadband ratio detector for improved capture ratio and easier tuning • Output for connection to EICO MX99 FM MULTIPLEX

EICO STANDARD SERIES

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HF87 70-WATT STEREO POWER AMPLIFIER. One of the finest stereo amplifiers available, regardless of price. Employs the thoroughly proven cathode coupled phase inverter driven circuit, preceded by a direct-coupled voltage amplifier. Because the common power supply for the two amplifiers exhibits very good regulation, signal conditions in one amplifier have negligible effect on the operating conditions of the other. To insure long life for the silicon diode rectifiers, electrolytics, and tubes, a surgistor is included to limit the starting surge currents. Service selector switch on the chassis permits choice of stereo or mono. Input level controls permit adjustment of sensitivity. **Frequency response:** \pm 0.5 db 5-100,000 cps. **IM distortion (60 & 7000 cps at 4:1):** Less than 1% at 70W. **Harmonic distortion:** Less than 1% from 20 to 20,000 cps within 1 db of 70W. **Size (HWD):** 8" x 15" x 11". **Kit, \$74.95. Wired, \$114.95. Matching Enclosure E-8, \$4.50.**

HF89 100-WATT STEREO DUAL POWER AMPLIFIER. The foundation of a top-quality audio system is necessarily a top-quality power amplifier. With present-day less efficient speaker systems, top quality has become strongly associated with high power obtained fully and without audible distortion across the full audio spectrum. In the HF89 we have pursued these goals down to the very end—to the point where there is nothing more that we can do to improve the quality. We have never offered a more thoroughly excellent amplifier, nor one which is more clearly a best buy in the field. **Meets or exceeds every professional criterion for a power amplifier of this power rating. Less than 0.1% IM distortion at normal listening levels with present day inefficient speaker systems. Less than 0.5% distortion at 100 RMS watts out (continuous sine-wave power). Full-rated 100 RMS watts undistorted from 20 to 20,000 cps. Undistorted half-power points below 15 cps and above 100,000 cps. Frequency response: \pm 0.5 db 5-100,000 cps. Sensitivity: 0.55V for full output. Hum: Better than 90 db below full output. **Size (HWD):** 6" x 15" x 11". **Kit, \$99.50. Wired, \$139.50. Matching Enclosure E-8, \$4.50.****

HF90A FM TUNER. The most popular FM tuner kit ever made. Features include a pre-wired, prealigned RF section plus prealigned IF transformers, a slide-rule dial with effortless flywheel tuning, and a travelling tuning eye indicator. Also important are a stabilized low limiting threshold for excellent performance from weaker signals, and a broadband ratio detector for easier tuning. Output for connection to EICO MX99 MULTIPLEX AUTODAPTER. **Sensitivity:** 1.5 μ v for 20 db quieting. **Frequency response:** 20 to 20,000 cps \pm 1 db. **Selectivity:** 260 kc IF bandwidth (60 db down). **Output:** cathode follower and multiplex. For 10 μ v input with 75 kc deviation, an audio output of 1.0 volt is obtained. **Hum:** 60 db below 1 volt. **Size (HWD):** 3 $\frac{3}{4}$ " x 12" x 8 $\frac{3}{4}$ ". **Weight:** 10 lbs. **Kit, \$44.95. Wired, \$69.95. Metal Cover E3: \$3.95. Includes FET.**

EICO STANDARD SERIES

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HF89 100-WATT STEREO DUAL POWER AMPLIFIER. The foundation of a top-quality audio system is necessarily a top-quality power amplifier. With present-day less efficient speaker systems, top quality has become strongly associated with high power obtained fully and without audible distortion across the full audio spectrum. In the HF89 we have pursued these goals down to the very end—to the point where there is nothing more that we can do to improve the quality. We have never offered a more thoroughly excellent amplifier, nor one which is more clearly a best buy in the field.

*Meets or exceeds every professional criterion for a power amplifier of this power rating. Less than 0.1% IM distortion at normal listening levels with present day inefficient speaker systems. Less than 0.5% distortion at 100 RMS watts out (continuous sine-wave power). Full-rated 100 RMS watts undistorted from 20 to 20,000 cps. Undistorted half-power points below 15 cps and above 100,000 cps. Frequency response: ±0.5 db 5-100,000 cps. Sensitivity: 0.55V for full output. Hum: Better than 90 db below full output. Size (HWD): 6" x 15" x 11". *Kit, \$99.50. Wired, \$139.50. Matching Enclosure E-8, \$4.50.**

HF90A FM TUNER. The most popular FM tuner kit ever made. Features include a pre-wired, prealigned RF section plus prealigned IF transformers, a slide-rule dial with effortless flywheel tuning, and a travelling tuning eye indicator. Also important are a stabilized low limiting threshold for excellent performance from weaker signals, and a broadband ratio detector for easier tuning. Output for connection to EICO MX99 MULTIPLEX AUTODAPTER. *Sensitivity:* 1.5 µv for 20 db quieting. *Frequency response:* 20 to 20,000 cps ±1 db. *Selectivity:* 200 kc IF bandwidth (60 db down). *Output:* cathode follower and multiplex. For 10 µv input with 75 kc deviation, an audio output of 1.0 volt is obtained. *Hum:* 60 db below 1 volt. *Size (HWD):* 3¾" x 12" x 8¼". *Weight:* 10 lbs. *Kit, \$44.95. Wired, \$69.95. Metal Cover E3: \$3.95. Includes FET.*

HFT94 AM TUNER. Features a choice of wide (to 14 kc) or narrow (to 7 kc) bandpass, the former for the highest fidelity available on AM, the latter for pulling in weaker or more distant stations. The tuned RF stage and built-in ferrite loop antenna help provide sufficiently high selectivity and sensitivity so that very little signal is required to achieve acceptable signal-to-noise ratio. A high Q filter eliminates 10 kc whistle while reducing response by no more than 3 db at 9 kc. *Typical sensitivity:* 3 µv at 30% mod. for 1.0 output, 20 db S/N. *Overall selectivity:* (Wide) 14 kc at -6 db. (Narrow) 7 kc at -6 db. *Frequency response:* (Wide) 20-9000 cps at -3 db. (Narrow) 20-5000 cps at -3 db. *Image rejection:* 58 db. *Hum level:* 60 db below output with 3 µv input, 30% modulation (1.0 volt). *Distortion:* Less than 1% harmonic distortion at 100% modulation. *Output:* Low impedance plate follower. Extra recording output. *Size (HWD):* 3¾" x 12" x 8¼". *Weight:* 12 lbs. *Kit, \$39.95. Wired, \$65.95. Incl. Metal Cover and FET.*

HFT92 FM/AM TUNER. Combines, on one chassis, the renowned HFT90 FM Tuner with excellent AM tuning facilities. Output for connection to EICO MX99 MULTIPLEX AUTODAPTER. *Sensitivity:* 20 µv for 0.8v output with 15 db S/N. *Selectivity (IF Bandwidth):* 8 kc at 6 db. *Antenna input:* Ferrite Rod; terminals for external antenna provided. *Frequency response:* 20-9000 cps ±3 db. *Hum:* 60 db below 1 volt. *Output:* Min. output of 0.8 volt with 20 µv input, 30% modulation. *Image rejection:* 40 db. *Total harmonic distortion:* Below 2% up to 70% modulation. NOTE: Specs apply to AM only; FM same as HFT90. *Kit, \$59.95. Wired, \$94.95. Includes Metal Cover and FET.*

HF12 12-WATT WILLIAMSON-TYPE INTEGRATED MONO-AMPLIFIER. The HF12 is a true high fidelity 12-watt integrated amplifier that provides complete "front end" facilities and true high fidelity performance of such excellence that we recommend it unreservedly for any medium-power high fidelity application. Inputs for mag. phono, tape head, tuner, tape recorder, or other sources. *Rated output:* 12 watts continuous, 25 watts peak. *IM distortion (60 & 6000 cps at 4:1):* 1.3% at 12W; 0.5% at 6W; 0.3% at 4W. *Frequency response:* 1W ±0.5 db 12 cps — 75 kc; 12W: ±0.5 db 25 cps — 20 kc. *Harmonic distortion:* 20 cps: 2% at 4.2W; ½% at 2.5W; 30 cps: 2% at 11W; ½% at 6.3W; 40 cps: 1% at 12W; ½% at 9.3W; 2000 cps: ½% at 12W; 10 kc: 1% at 10W; ½% at 6W. *Hum & Noise level (below 13W):* mag. phono — 60 db; tape head — 50 db; tuner, auxiliary — 75 db. *Speaker outputs:* 4, 8, and 16 ohms. *Weight:* 15 lbs. *Size:* 3¾" x 12" x 8¼". *Kit, \$39.95. Wired, \$59.95. Includes Metal Cover.*

HF20 20-WATT WILLIAMSON-TYPE INTEGRATED MONO-AMPLIFIER. The HF20 employs an output transformer capable of handling far in excess of its 20 watts rated power, a full Williamson power amplifier circuit, and the finest preamplifier-control facilities. It has become established as the outstanding value in amplifiers of this power class. *Rated output:* 20 watts (34 watts peak). *IM distortion:* (60 & 60,000 cps at 4:1): 1.3% at 20W. *Harmonic distortion:* below 1% 20-20,000 cps within 1 db of 20W. *Frequency response:* ±0.5 db 15-30,000 cps at any level to 20W. *Hum & Noise level:* Mag. Phono: 60 db below 20w (RIAA, max-gain, and tone controls "flat" positions); Tuner, etc.: 75 db below 20w (max-gain, and tone controls at "flat" positions). *Tone control range:* ±15 db at 50 cps; and ±15 db at 10 kc. *Size (HWD):* 8¼" x 15" x 10". *Weight:* 24 lbs. *Kit, \$49.95. Matching Enclosure E-1, \$4.50.*

AF4 8-WATT ECONOMY STEREO INTEGRATED AMPLIFIER. Engineered to provide true high fidelity quality at power levels adequate to drive high efficiency loudspeakers to concert volume. Contains two highly fed-back, 4W amplifiers preceded by input selection, mode of operation, tone and level control facilities to insure complete flexibility for either stereo or mono operation. The feedback level around each power amplifier is 27 db, which results in harmonic and IM distortion figures that fall within high fidelity standards at average listening levels. *Kit, \$38.95. Wired, \$64.95. Includes Metal Cover and FET.*