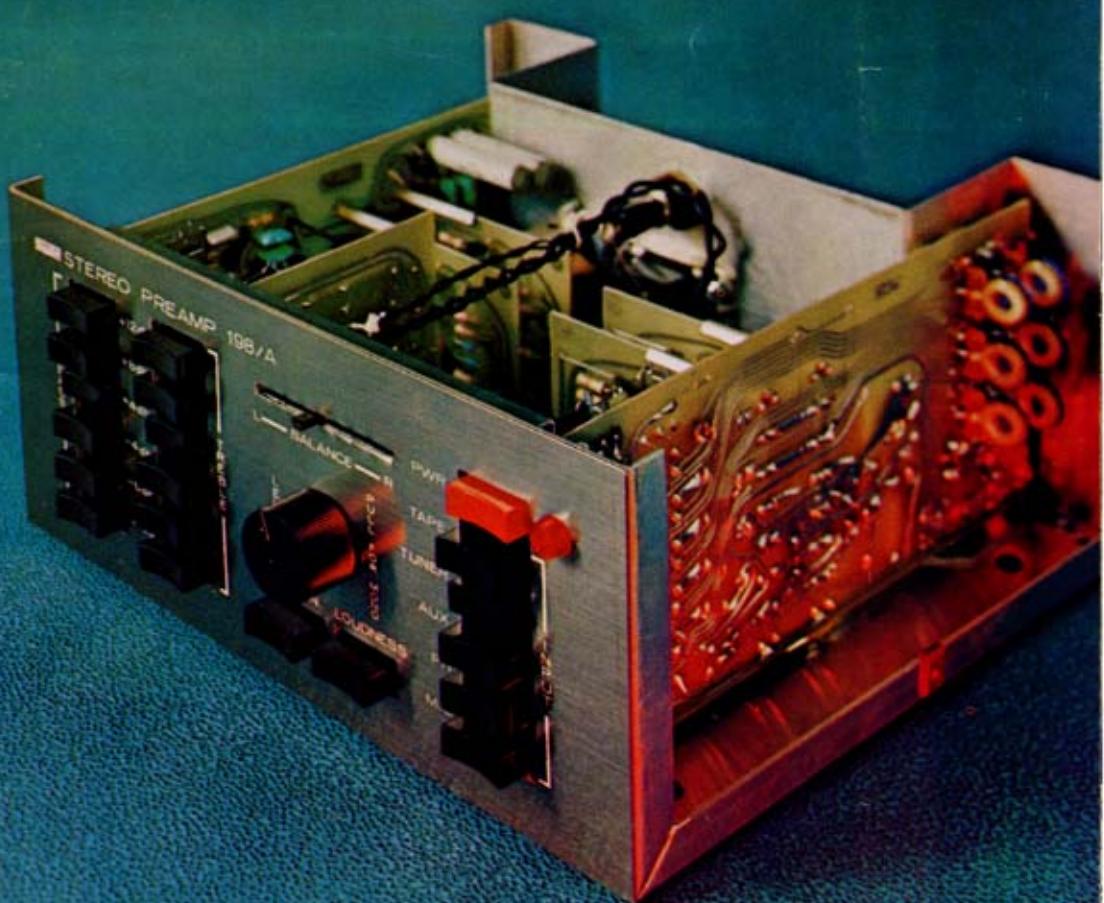
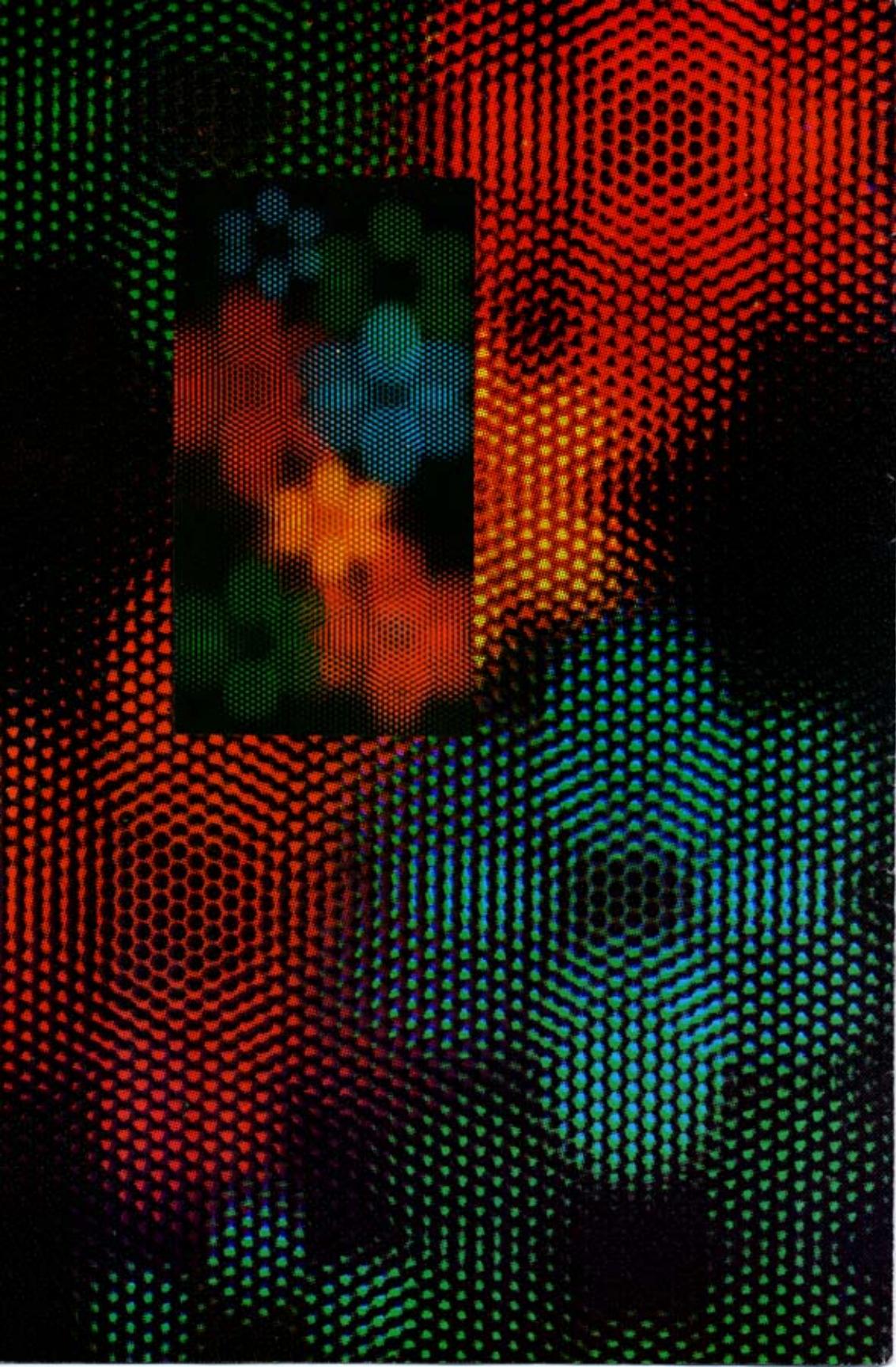


# EMI





## **TWO UNIQUE COLOR ORGANS**

## PSYCHEDELIA I

**"CLASSICAL" FILTER SYSTEM  
4 - 800 WATT CHANNELS  
WORKS WITH ANY SOUND SYSTEM**

The best of its type. Psychedelia I is the only color organ available using a ramp triggering system. This unique system, pioneered by SwTPC, produces a light output that is closely proportional to the sound level in each channel. There are no circuits that produce a lag in light response, other than the lamps in the display itself. Lamp power is changed at a 60 per second rate.

The four channels are generated by op-amps driving active filters. These filters have 12 dB per octave slopes to minimize crosstalk and bleed through from one channel to another. The input is transformer isolated and may be connected to any speaker terminals with safety. Due to the sensitivity of this circuit only a fraction of a Watt is needed to drive the system and as a result the connection cannot possibly affect your sound system in any way.

Psychedelia I corrects automatically for variations in sound level. A compressor circuit with 40 dB range allows you to operate your system at any level from 5 Milliwatts to 50 Watts without readjusting the color organ controls. This completely eliminates the need to reset sensitivity every time you change the volume.

**QX-Four Channel Kit**      4 lbs      \$44.95  
**QXA Assembled Kit**      4 lbs      \$60.00

## SPECIFICATIONS

Display Cabinet - 22x14x12 Wood grain finished display cabinet semi-kit. Seven lamp mounts must be installed and wired to finish. Matches most bookshelf size speaker systems.

QD Shipped by Express, bus, or UPS only – too large to mail

\$26.50

## PSYCHEDELIA II

NEW DIGITAL SYSTEMS  
4 - 800 WATT CHANNELS  
WORKS WITH ANY SOUND SYSTEM

A new approach to color organ circuits. Psychedelia II uses a sampling system and digital counting techniques to separate the sound input into four channels. The sample rate is adjustable from 5 to 50 times a second to produce the amount of display activity you want. The display action that results from this system is considerably different from the more common filter type color organ. First of all there is only one color lamp on at any time. However persistency of vision will produce the illusion of all lamps being on under some conditions of input signal. Due to the sampling process used, the display is more active as it switches rapidly from one color to another. This also tends to make the display seem more random. The display will not follow music in quite as obvious a fashion as a filter color organ. Since it will not sync with the music in the same way twice the display will be different even if the same selection is played again.

The input is transformer isolated and may be connected safely to any systems speaker terminals. The sensitivity is great enough to prevent loading of the amplifier and you will not effect the sound system in any way by using this color organ.

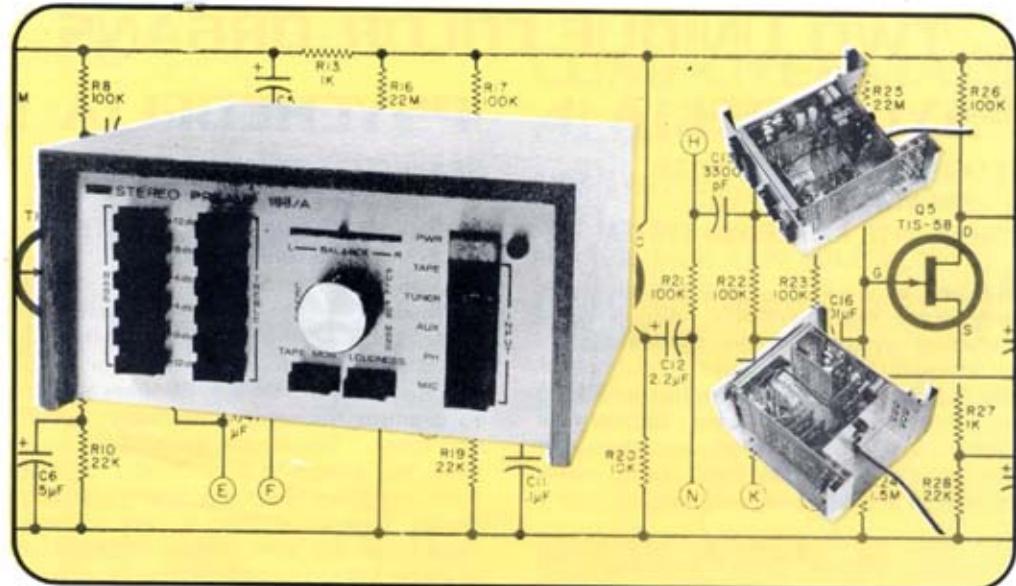
**QX-11 Four Channel Kit**    4 lbs    \$44.95  
**QXA-11 Assembled Kit**    4 lbs    \$60.00

## SPECIFICATIONS

I display cabinet semi-kit. Seven lamp mounts



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



professional studio equipment. When no compensation is wanted the amplification is absolutely flat.

All controls have been designed to make their function as obvious as possible, so that the chances of a mistake in settings will be minimized. Loudness compensation and tape monitor functions are provided.

All gain needed is provided by four of our plug-in #195 opamp circuits. These plug into two "motherboards" that contain all the switching and equalization components. The result is vastly simplified wiring, and easy construction.

The kit is complete with a brushed gold finished front panel and the wood grain finished cover shown. Two switched convenience AC receptacles are provided on the back.

#198A Preamp Kit, 6 lbs. . . . . \$69.50 + postage

#### SPECIFICATIONS

Sensitivity.....	Phono and Mic 2.0 mv for 1 Volt output, All Others 100 mv. for 1 Volt output
Frequency Response.....	Flat $\pm$ 1 db 10 to 100,000 Cycles
Distortion.....	Less than .05% Harmonic or IM at rated output
Noise.....	Phono and Mic 65 db down all others 70 db down

## 198/A PREAMP

PUSHBUTTON TONE CONTROLS

GAIN MODULE DESIGN

MOTHERBOARD CONSTRUCTION

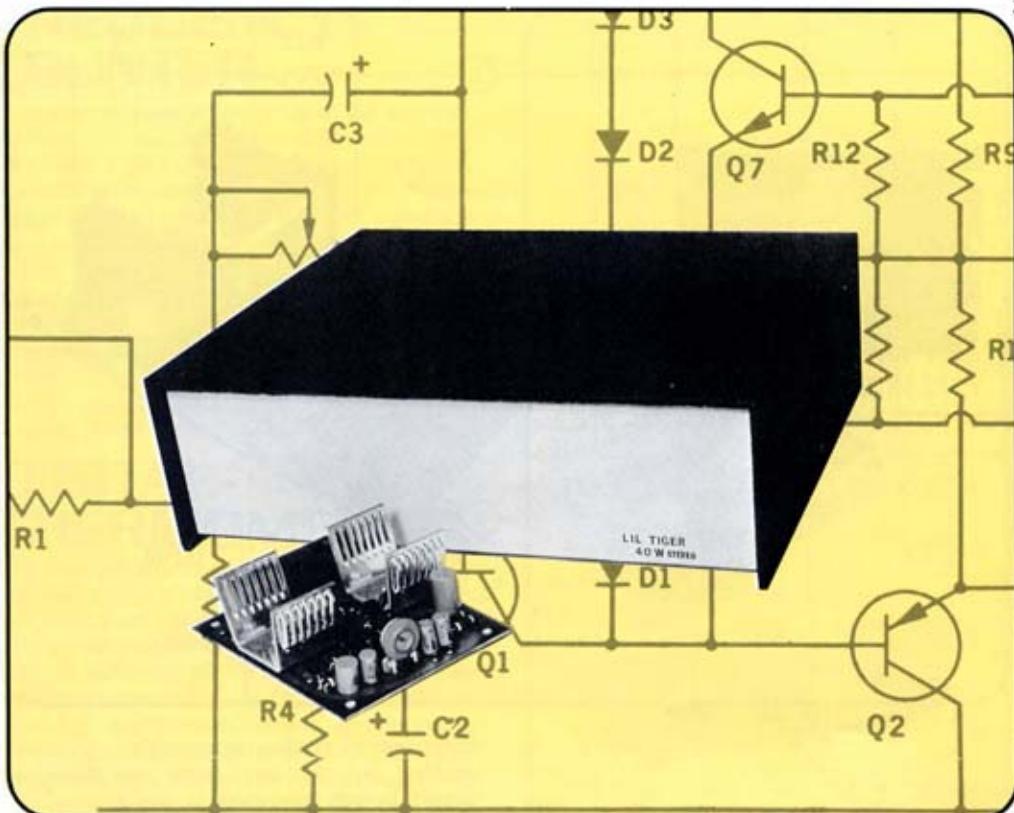
SELF POWERED - WILL

WORK WITH ANY AMPLIFIER

We are proud to offer a preamp and control center that is equal in quality and performance to our new "Tiger .01" amplifier. Both input and tone control settings are push-button switch selected. This makes it possible to get the exact amount of compensation you want every time, just as in



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



This fantastic little amplifier has been built by thousands of people since it was introduced over three years ago. There is still nothing that can compare with this amplifier in its price range. Quality parts and circuit boards, plus the new brushed gold front panel make this amplifier a real "best buy".

# 140-CX	Lil Tiger Amplifier -	
Shipping Weight 6 oz.	.....	\$11.10
# P-140	Power Supply and Chassis -	
Shipping Weight 6 lbs.	.....	\$15.00
Complete Stereo Amplifier Kit (consisting of 2 # 140-CX and P-140).....		\$37.00

#### SPECIFICATIONS

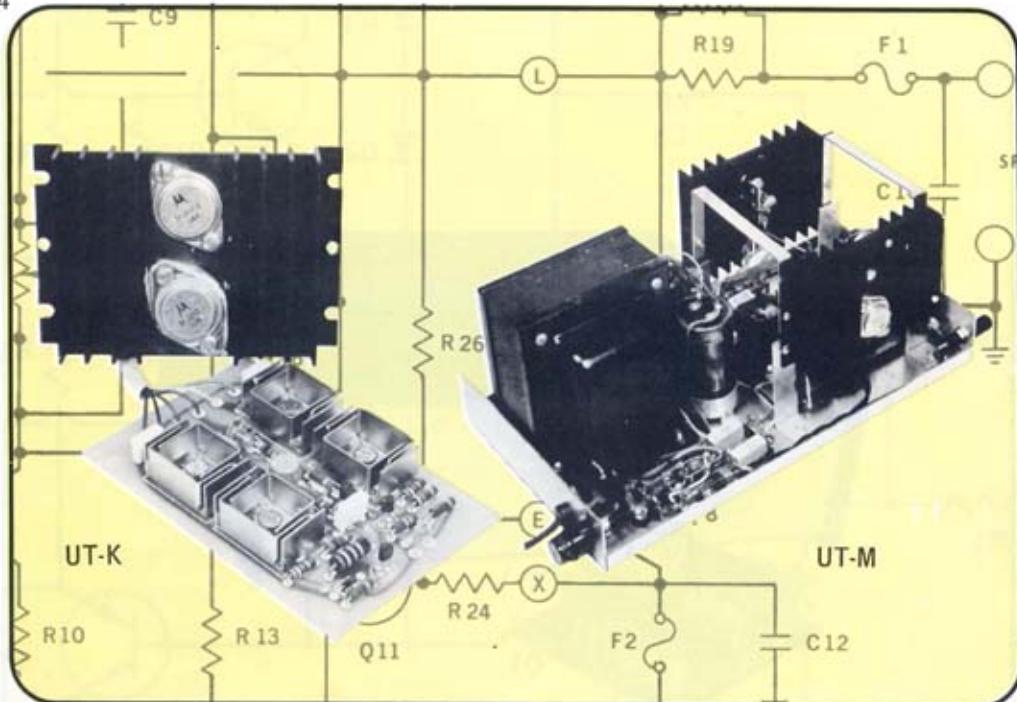
Power Output .....	18 Watts RMS .22 Watts IHFM per channel into an 8.0-Ohm load with 45-Volt power supply
Distortion .....	Less than 1% total harmonic up to a full rated output
Frequency Response.....	3db down at 20 Hz and 100,000 Hz
Input Impedance.....	Approximately 5000 Ohms
Output Impedance.....	Approximately 0.1 Ohm (damping factor of 80 with 8-Ohm load)
Hum and Noise ...	More than 80 db belowone Watt
Sensitivity .....	1.5-Volt input for 20 Watt output
Supply Voltage .....	12 to 45 Volts d.c.

## LIL TIGER

ALL SILICON TRANSISTOR CIRCUIT  
OUTPUT SHORT PROTECTION  
COMPLEMENTARY OUTPUT STAGE  
FIBERGLASS CIRCUIT BOARD



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



construction as easy as possible. As usual, nothing but the best parts and fibreglass circuit boards are used in the kit.

For those building custom systems, or those who may have a suitable power supply on hand already, we offer a "basic" kit, our UT-K. This consists of the circuit board and parts, plus the heat sink (1) and output transistors. This is the ultimate in economy if you enjoy building from "scratch", and have the other odds and ends needed to complete the amplifier.

UT-K	Kit (left picture) -
	Shipping Weight 3.6 lbs. ....
UT-M	Single Channel Kit (right picture) 11x6x5- Shipping Weight 14 lbs. ....
2UT-M	Two Channels - Shipping Weight 28 lbs. ....
UT-MA	Assembled and tested - Shipping Weight 14 lbs. ....
2UT-MA	Two Channels Assembled and tested - Shipping Weight 28 lbs. ....

## UNIVERSAL TIGER MK II

Our all purpose, rugged, old standby for almost any type audio application. The "Universal Tiger" is clean enough for the best stereo and hi-fi amplifications and also powerful enough to be used for PA, organs and sound systems of all types. Total harmonic distortion is typically less than .05% at full rated power and IM distortion less than .2%.

The circuit features a differential amplifier input stage, current source driver and full complementary output stage. The circuit is protected with a volt-amp limiting system, speaker fuses and drive limiting. Two large heat sinks and open construction insure cool reliable operation.

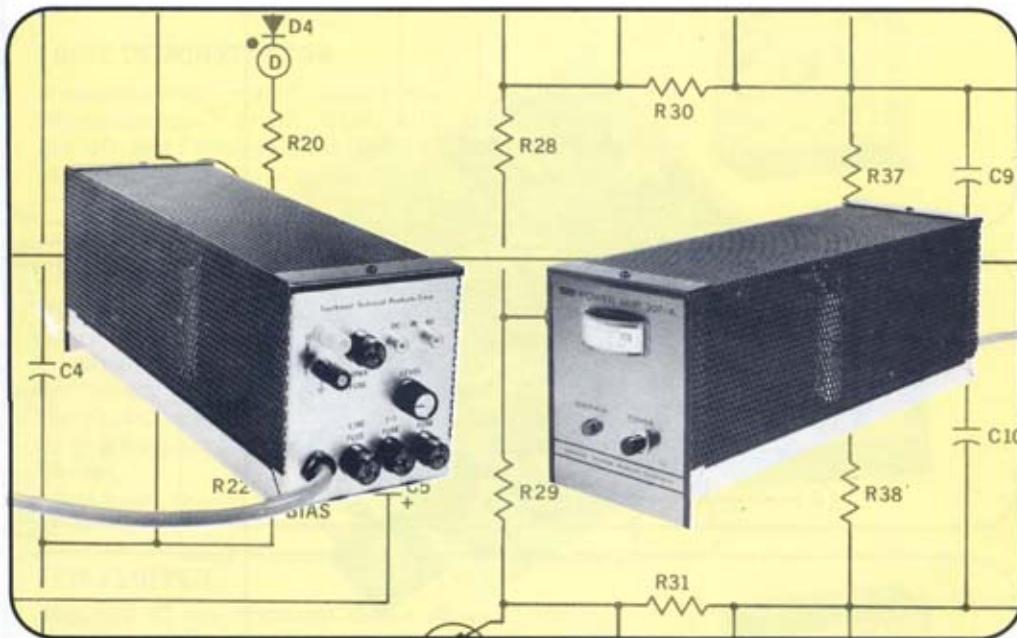
This kit has step-by-step assembly instructions and pictorial assembly drawings to make

### SPECIFICATIONS

Power Output .....	90 Watts --- 8 Ohm load
	100 Watts --- 4 Ohm load
Total Harmonic Distortion .....	.05%
Input Impedance .....	20,000 Ohms
Damping Factor .....	Over 100 with 8 Ohm load
Sensitivity .....	1.5 Volts RMS for full Output
Hum and Noise....	More than 80 db below 10 Watts
Bandwidth .....	3.0 db down at 0.5 and 250 KHz
IM Distortion .....	less than 0.2%



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



## TIGER .01

A new standard of performance. We know of no amplifier now available than can match the performance of our new "Tiger .01". Our new completely push-pull circuit with cross coupled push-pull feedback makes possible an IM distortion rating of less than .01% up to rated output. This is easily ten to one hundred times better than many so called Hi-Fi amplifiers. The distortion is so low that presently available instruments cannot accurately measure it. This is the first amplifier that we have ever measured that has lower IM distortion than harmonic distortion. IM distortion is generally recognized as correlating better with listening tests than any other measurement of performance.

The amplifier is designed to be used as either a single channel unit for sound system and

instruments, or in any multiple needed for stereo or quad systems. Optional wood grain finish cabinets are available for mounting two, or four of these amplifiers. The front panel is quarter rack size to allow relay rack mounting of up to four of these units in a standard 19 inch relay rack.

The circuit features volt-amp and fuse protection, plus an over heat thermostat. An output meter is provided on the front panel as shown. The perforated metal cover is included in the standard kit.

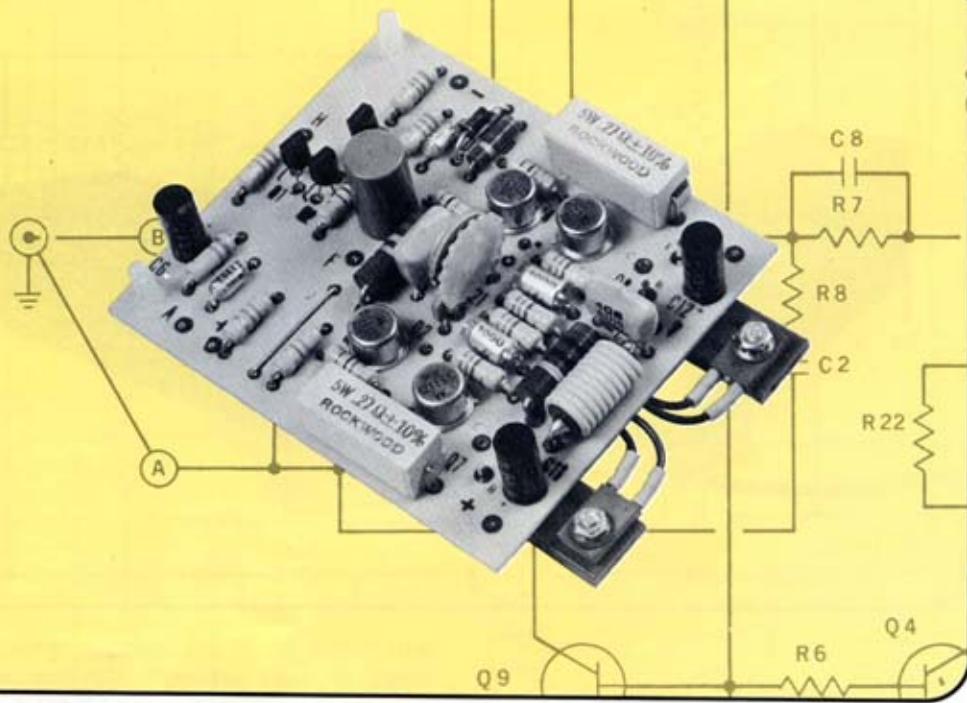
# 207	Complete Kit .....	\$75.00
	shipping weight 15 pounds	
# 207-A	Assembled Amplifier .....	\$105.00
	shipping weight 15 pounds	

### SPECIFICATIONS

Power Output .....	60 Watts RMS
IM Distortion .....	less than .01%
Harmonic Distortion .....	.03%
Input Impedance .....	50K Ohms
Damping Factor .....	greater than 100 with 8 Ohm load 20-20,000 Hz.
Sensitivity .....	1.0 Volt for full Output
Hum and Noise .....	More than 80 db below 10Watts
Bandwidth .....	-1 db 10 Hz and 250,000 Hz.



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



Pictorial assembly drawing and step by step instructions make this kit an easy project for anyone with even an elementary knowledge of electronic construction.

# 185 "Plastic Tiger" kit - circuit board and parts for one channel only. - 6 oz. .... \$18.50  
 # 185-C Complete Stereo Amplifier - consists of two 185 kits as above plus chassis and power supply as shown. - 8 lbs. .... \$55.00  
 # 185-CA Assembled Stereo Amplifier-8 lb.. \$75.00

#### SPECIFICATIONS

Power Output ..... Either Channel Singly:  
 36 Watts RMS-8 Ohm load  
 40 Watt IHFM-8 Ohm load  
 Both Channels Driven:  
 30 Watts RMS-8 Ohm load  
 Total Harmonic Distortion.... Less than 0.1% up to  
 rated output  
 Input Impedance ..... 22 K Ohms  
 Output ..... Less than .25 Ohms 20-20,000 Hz  
 Sensitivity ..... 1.25 Volts RMS input for 30  
 Watts output  
 Hum & Noise ..... More than 80 db below 10  
 Watts - less than 1.0 Mv at output  
 Frequency Response ..... 1.0 db down at 5 and  
 100,000 cycles  
 3 db down at 2 and 150,000 cycles  
 Stability..... Unconditionally stable with any type  
 load impedance, or input impedance.  
 Protection ..... Current into shorted load limited  
 by inherent characteristics of circuit

## PLASTIC TIGER

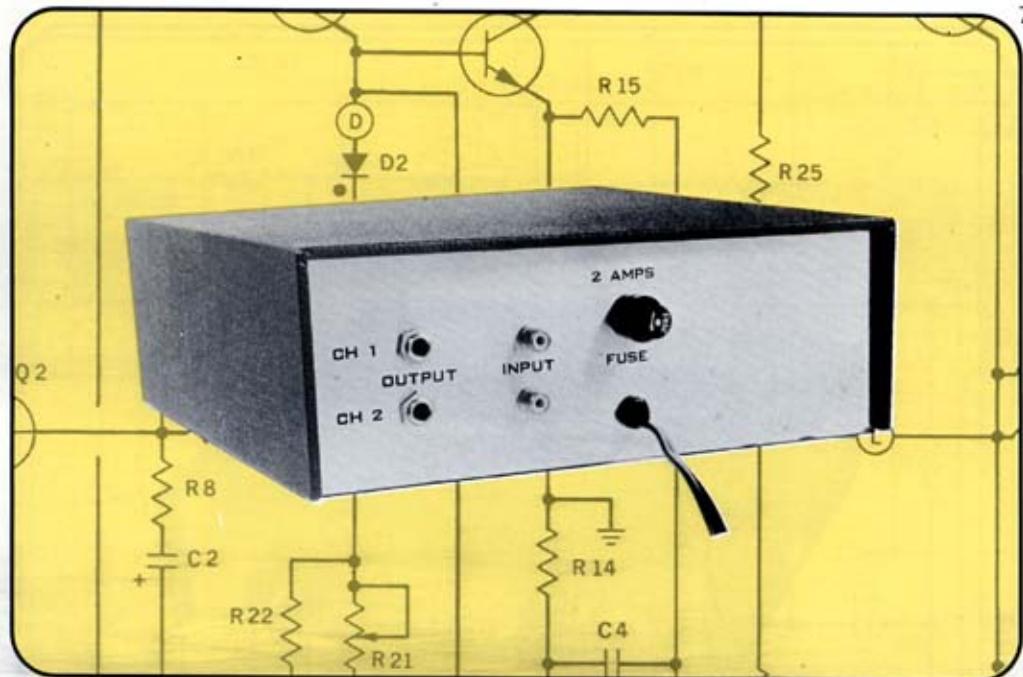
"Plastic Tiger" is the answer for those who want a really good amplifier in the medium power range. It uses the same superior circuit as the "Universal Tiger", but with economical plastic output transistors. Total harmonic distortion is typically below 0.1% up to full rated output.

Compare the specifications of this amplifier with any other amplifier offered in this power range.

Plastic Tiger is available, as shown above, as just an amplifier, or complete with power supply and chassis. The chassis has brushed red-gold trim panels on the front and rear and a textured black vinyl covered top.



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This produces an outstanding amplifier value. Total harmonic distortion is typically around 0.1% at levels below 1 Watt and reaches 1% just before clipping level. The 31 transistor circuit in the IC driver features differential amplifier input and Volt-Amp protection of the output circuit. Only with an integrated circuit could all these features be included at this price.

The chassis trim panels are brushed Red-Gold and the top is covered with textured black vinyl. As always the circuit boards are of fiberglass and only quality parts are supplied in the kit. "540" is supplied with pictorial and step by step instructions. Can easily be assembled by anyone who has learned how to solder.

"540" Amplifier kit - one channel - board and parts only - 6 oz. .... \$10.50  
 "540-C" Complete Stereo Amplifier - consists of two "540" kits as above and chassis with power supply shown - 6.0 lbs. .... \$37.50

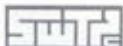
#### SPECIFICATIONS

Power Output .....	20 Watts IHFM
18 Watts RMS-one channel	
15 Watts RMS-both driven	
Distortion .....	Less than 1% total harmonic at full output. Less than 2% at levels below 1 Watt
Frequency Response .....	1 db down at 5 and 100,000 Hz
Hum and Noise....	More than 80 db below 10 Watt
Sensitivity.....	.4 Volt RMS for full output

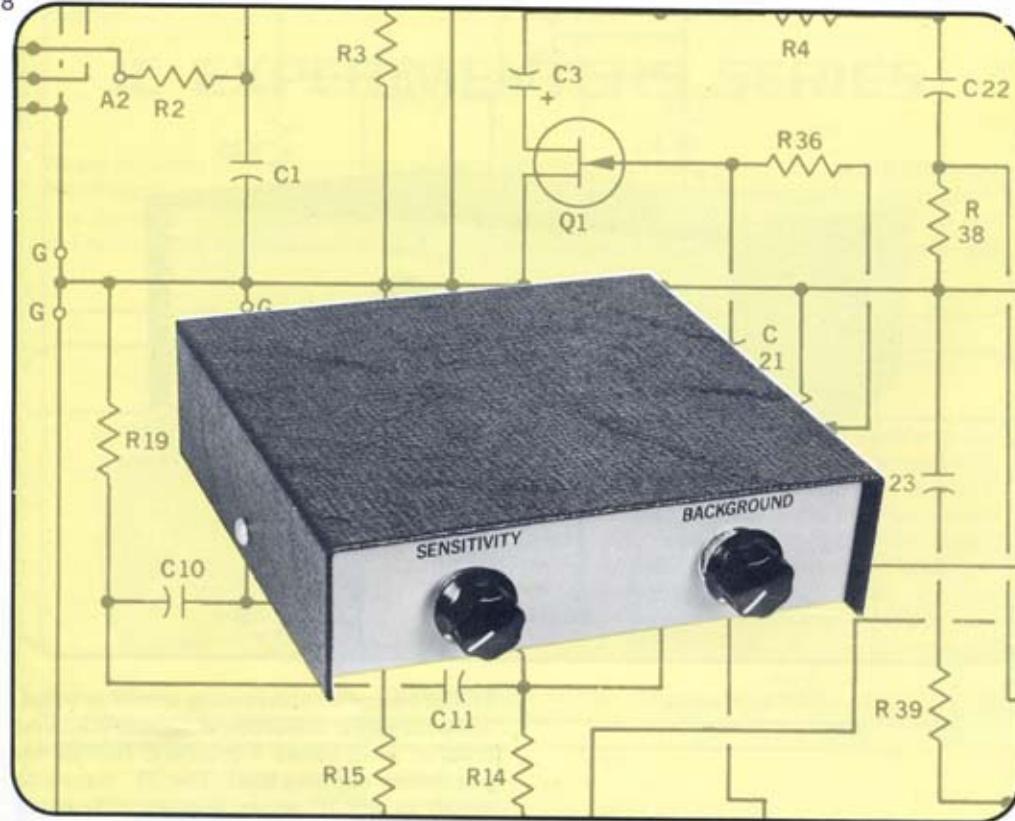
## 540

### NEW - POWER DRIVER IC DESIGN VOLT-AMP PROTECTION CIRCUIT COMPLIMENTARY OUTPUT TRANSISTORS

"540" is a new direction in power amplifier design. The entire circuit consists of the new 540 Power Driver integrated circuit and two big husky 10 Amp complementary power transistors.



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



Simplified Construction - With Pictorial Wiring Diagrams - Higher Power - Now 8 Amps RMS

Although inexpensive, the Sonolite features a full wave "Triac" control system. The input system is completely isolated from the power control section by a lamp-Photocell assembly. No danger of blown fuses, or shocks. This versatile circuit can also be used as a motor speed control, lamp dimmer, or as a remote power control system. Use a "Sonolite" with each amplifier in your musical group to produce a light show with music. The high power control rating of the Sonolite makes it possible to operate several floodlamps from each unit.

## SONOLITE- COLOR ORGAN

USE WITH ANY MUSIC SYSTEM

CONTROLS UP TO 800 WATTS

EASY TO INSTALL

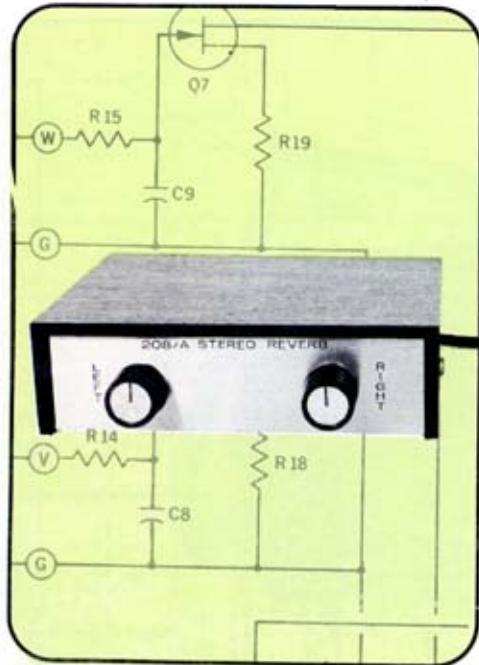
X147C Kit - Sonolite Color Organ -  
Shipping Weight 2 lbs. ..... \$11.00  
147 Assembled - Sonolite Color Organ -  
Shipping Weight 2 lbs. ..... \$16.50

### SPECIFICATIONS

Controlled Power ..... 800 Watts  
Input Power - (Full Output) ..... .5 Watt  
Input Impedance ..... 8 or 16 Ohms  
Controls ..... Background Sensitivity Size 5x5x1½



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



## REVERB ADAPTOR

Use our new self powered stereo reverb adaptor to put reverberation into your system. The spring reverb unit adds the "Concert hall" reverberation time to your music electronically. Simulates the acoustics of a large hall and gives your music more "life."

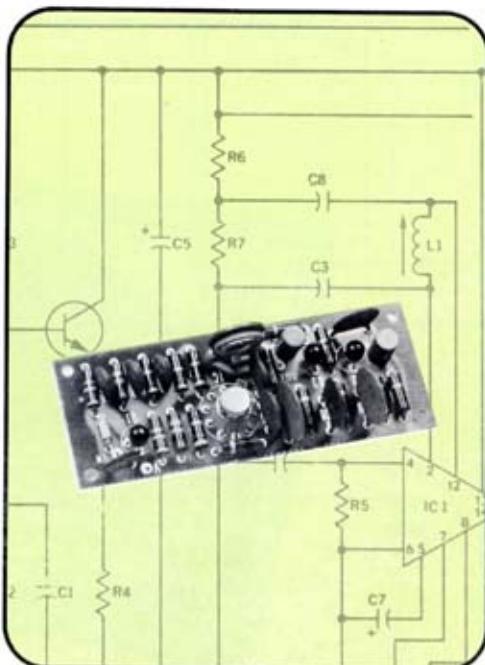
Two independent channels with separate controls to add the exact amount of reverb you prefer in each stereo channel. This self-powered unit is connected between your preamp and power amplifier and may be used with any type system.

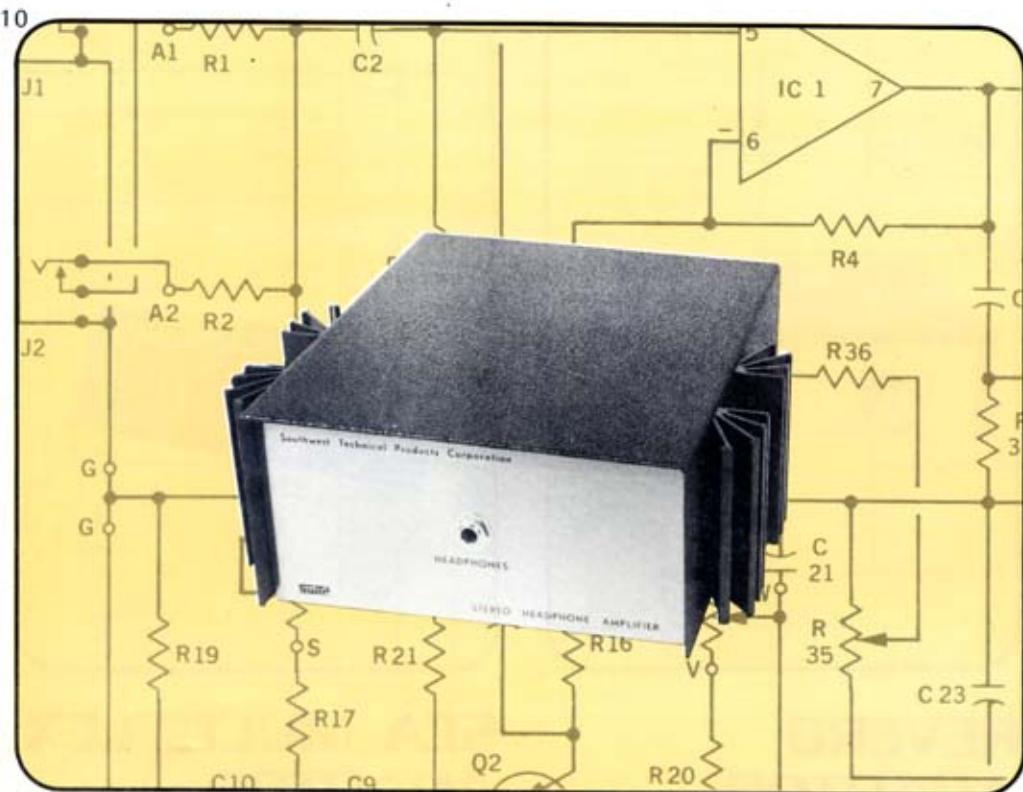
Brushed gold chassis with wood grain cover. Step-by-step instruction and use of three integrated circuits make this kit quick and easy to assemble.

# 239-C	Complete Kit with two spring units --- 5½ lbs.	\$38.50
# Z-1C	Reverb Springs only as used in above kit. 2,000 Ohm input and output. --- 2.0 lbs.	each \$10.00

### SPECIFICATIONS

Nominal Delay ..... 37 Milliseconds  
 Reverberation ..... 0.50%-Control on panel  
 Size ..... 5 x 5 x 1 ½





# HEADSET AMPLIFIER

DESIGNED SPECIFICALLY TO DRIVE  
HEADSETS

INDEPENDENT POWER SUPPLIES FOR  
EACH CHANNEL

CLASS A OPERATION – LOW  
DISTORTION AT ANY LEVEL

LESS THAN .02% THD UP TO RATED  
OUTPUT 20 Hz to 20,000 Hz

FLAT + 0.5 DB 10 to 100,000 Hz  
HUM AND NOISE – 75 DB below  
1.0 WATT

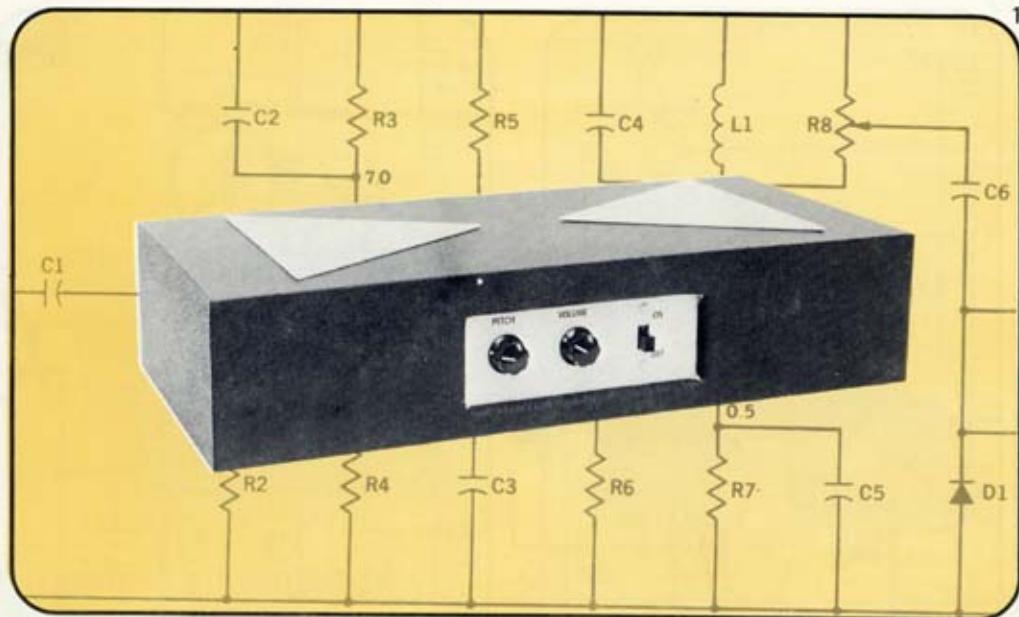
At last an amplifier designed specifically for driving a headset. This amplifier has all of the features found in the best power amplifiers, but provides a power output suitable for driving headsets safely. Normal power amplifiers are dangerously high in output for use with a headset, and often must be operated at levels where the distortion and noise characteristics are not optimum. Headset outputs generally have large value dropping resistors in series with them to limit power, but this completely ruins the damping characteristics of the amplifier as far as the headset is concerned. This amplifier will deliver 2 Watts per channel of ultra clean class A power with a damping factor greater than 20 into an 8 - 16 Ohm headset.

Construction is easy. All parts except transformers and connection jacks mount on two of our fiberglass circuit boards. The 7x8x3½ deep case is finished in a beautiful new dusky chrome and has a black vinyl covered steel top. This kit is a must for anyone using headsets if they want the best possible sound quality from their system.

# 202-C Headset Amplifier Kit –  
Shipping Weight 7 lbs. .... \$44.50



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



**FET VOLUME CONTROL**  
**USE WITH ANY INSTRUMENT**  
**VINYL COVERED CABINET –**  
**MATCHES INSTRUMENT AMPLIFIER**  
**POWERED BY 9 VOLT BATTERY**

A modern, solid state version of the Theremin all electronic musical instrument. Two antenna plates, operated by hand capacity, control the pitch and volume of the sound. Add this to your combo for a really unique and different sound.

Our revised version of this instrument now has fully shielded coils and a new tuning circuit. Adjustments are fast and noncritical. The rugged vinyl covered cabinet matches our MMM Instrument amplifier.

# 142 Complete kit for Theremin - with cabinet & Antenna - Shipping Weight 4 lbs. .... \$22.50  
 # TE Theremin-electronics kit only (no case) -  
 Shipping Weight 9 oz. .... \$16.50

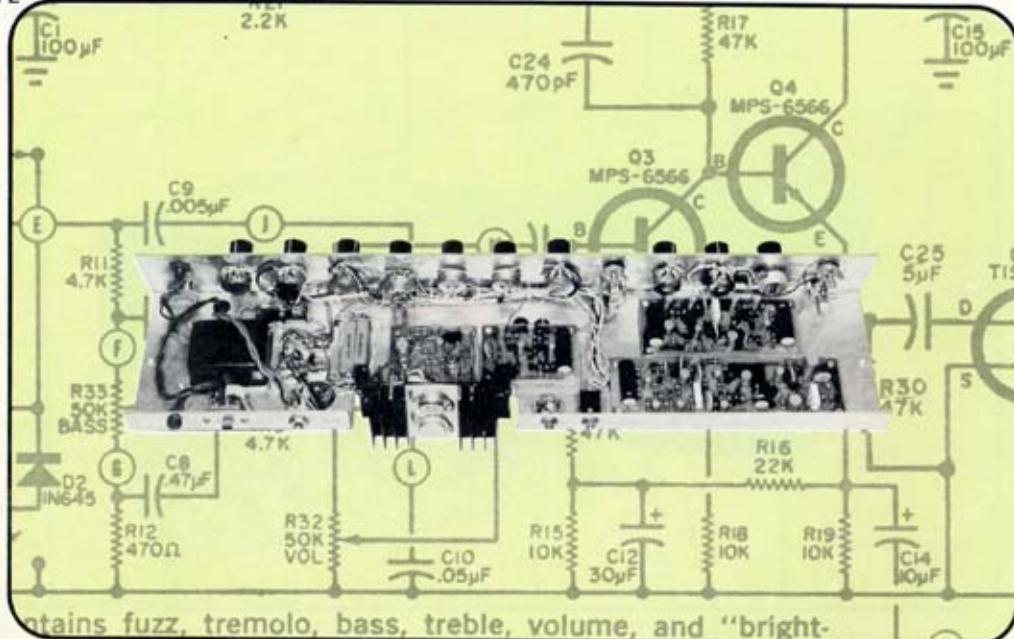
#### SPECIFICATIONS

Controls ..... Pitch - Zero set - Volume  
 Approximate Sound Range ..... 30 to 15,000 Cycles  
 Volume Range ..... 50 to 60 db Change  
 Power ..... Internal 9 Volt Battery

# **THEREMIN ELECTRONIC MUSICAL INSTRUMENT**



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



contains fuzz, tremolo, bass, treble, volume, and "bright".

Time tested by professional combo groups, this instrument amplifier can't be touched by any similar professional unit as far as price, quality and versatility are concerned. A complete custom sound system can be purchased for your electric guitar or other type stringed instrument. If you already have some type of system for your instrument, then special sections can be added for desired effects. Custom fit your instrument as to your needs. This versatile system includes controllable fuzz, tremolo, and reverb: also, a clean 60-Watt booster. A straight preamplifier for vocal or voice announcements can also be added. Now being supplied with short proof output circuit. No more blown transistors from accidentally shorted speaker leads.

**M/M/M  
INSTRUMENT  
AMPLIFIER**

## TREMOLO REVERB AND FUZZ

## FOOT SWITCH CONTROL OF TREMOLO AND REVERB

## FET INPUT STAGE FOR QUIET OPERATION

**60 WATT RMS OUTPUT**

150 WATTS PEAK

### FET INPUT STAGE

## SHORT PROTECTED AMPLIFIER

## PICTORIAL ASSEMBLY INSTRUCTIONS

#### **BRUSHED FINISH FRONT PANEL**

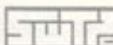
# MMM Complete Amplifier, less cabinet, with reverb and both preamps - Amplifier cabinet size: 24%9x9x7%.

Shipping Weight 13 lbs. .... \$90.00

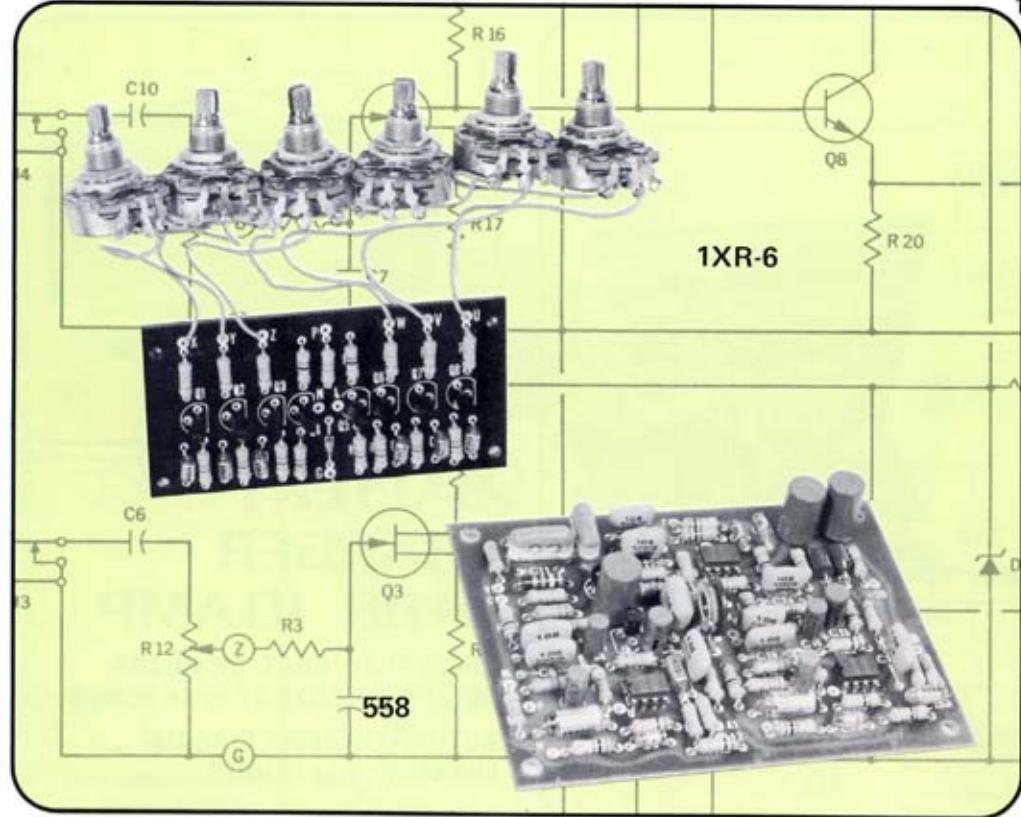
(Prices of amplifier, preamp and reverb sections as separate items available on request.)

## SPECIFICATIONS

**Power Output** ..... 60 Watts RMS  
**Frequency Response** ..... 150 Watts Peak Power  
**Dynamic Range** ..... 20 Hz to 50 KHz  
**Complete control of Fuzz, Tremolo and Reverb**



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



## DUAL CHANNEL PREAMP 558

One straight preamp with only tone controls, one preamp with tremolo and reverb. All on  $3\frac{3}{4} \times 4\frac{1}{2}$  circuit board. New op-amp circuit provides all these features and less than 0.1% distortion at 1.0 Volt output. Combine with one of our "Tiger" series, or 540 amplifiers for a complete system.

The circuit features the "558" dual op-amp integrated circuit, for consistent stable operation. Tremolo is controlled by a FET transistor for the cleanest smoothest modulation you have ever heard.

Kit is complete with all controls (9) but less the reverb spring. — "O.C." Z-1B.

# '558' Preamp Kit - Shipping Weight 1 lb. . \$27.85  
Reverb Spring - Shipping Weight 2 lbs. .... \$10.00

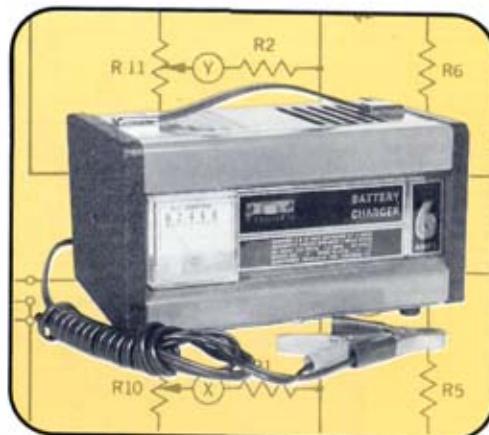
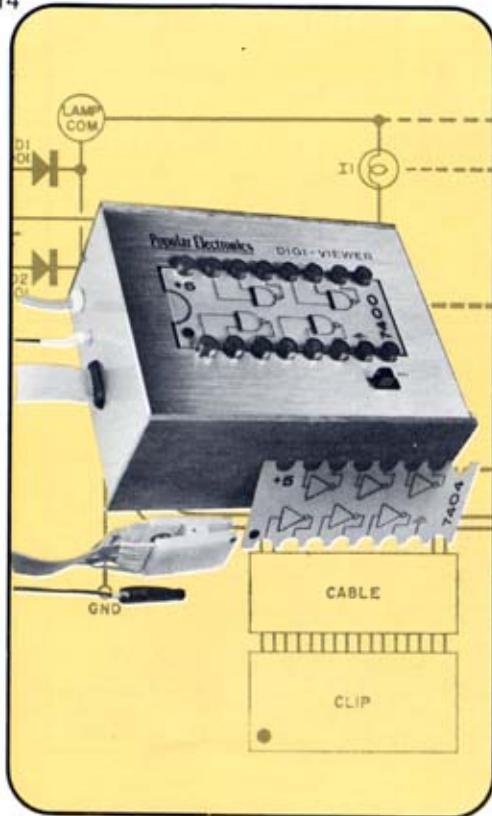
## 6 INPUT MIXER

For those custom PA designs — Two channels with three inputs on each channel, or six inputs to one channel as needed. An individual FET high impedance input stage is used with individual volume controls for each input. The mixer cannot cause loading, or add noise to your system. Inputs of up to 0.5 Volts RMS may be used without overloading. Circuit gain of 3 in two channel, or unity if used on one channel allows addition of the mixer at almost any point in your system from the microphone to the power amplifier. Requires 12 to 24 Volts DC at 5 Ma. Complete with controls.

1xr-6 Kit - Shipping Weight 1 lb. .... \$13.75



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



## BATTERY CHARGER 6 OR 10 AMP

KEEPS AUTO, BOAT, OR MOTOR-CYCLE BATTERYS AT PEAK POWER

AUTOMATIC RESET CIRCUIT  
BREAKER 6 or 12 VOLT

ALL WIRES READY TO USE - NO SOLDERING REQUIRED IN KIT

This high output battery charger is ideal for keeping those boat, cycle, snowmobile, truck and car batteries up to full charge. Both models feature all steel vented cases, 6 foot power and charging cables, insulated copper battery clamps, automatic circuit breakers riveted in place vinyl handles, large easy to read meter, high output transformers and full-wave selenium rectifiers. The kit may be assembled in less than an hour with only a screwdriver. All wires in the kits are supplied with push-on terminals and clips already attached at the factory. Easy step-by-step instructions supplied for assembly. Both models, 6 or 10 Amp, will supply up to 50% more than rated output on initial charging surge; tapers up 2 to 3 Amps as the battery comes up to full charge. Case is red with black crackle end plates.

# B-6	6 Amp Battery Charger Kit -	
	Shipping Weight 10 lbs.	\$14.95
# B-6A	Assembled 6 Amp Charger -	
	Shipping Weight 10 lbs.	\$17.50
# B-10	10 Amp Battery Charger Kit	
	Shipping Weight 12 lbs.	\$19.95
# B-10A	Assembled 10 Amp Charger	
	Shipping Weight 12 lbs.	\$23.50

## DIGI-VIEWER

### AUTOMATIC - IN OPERATION TESTING OF DIGITAL INTEGRATED CIRCUITS

In-circuit dynamic testing of integrated circuits is now simple and inexpensive with the Digi-Viewer. The instrument consists of 16 lamps and a special clip which allows quick and easy connection to the pins. The lamps visually show whether the voltage at each pin is over, or under 1.4 Volts. Overlays are provided for all popular circuits, making it possible to see at a glance what is happening at the various pins of the entire package simultaneously.

# VU Kit of all parts including case, clip and sheet of most used overlays -  
Shipping Weight 4 lbs. .... \$19.86



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



A new and unusual approach to music synthesis. The sounds produced by the Psych-Tone are modern — to say the very least — and operation is simple.

Basically a "pseudo random" sequence generator which operates as a tune computer, the Psych-Tone allows variation of the tempo, voicing, selection of pauses and tone shaping. The internal digital computer may be set for 1728 different 63 note sequences. These may be selected and combined with any of 63 pause combinations to produce 108,864 different melodic lines. These may be played at almost any tempo, pitch, or volume; backward or forward. Six different voices are provided and the user has full control of the attack, sustain and decay functions.

The wide flexibility of the controls makes possible sounds like a piano, violin, bagpipe, or something never heard before. On occasion, the music may sound familiar, but it is more likely to have science-fiction flavor with many wild tonal sequences.

The Psych-Tone has an internal monitor speaker, but preferably, it should be used with an external amplifier having reverb and tremolo to get the most exotic sounds.

# PSY Psych-Tone kit complete with black vinyl covered case - 7" x 10" x 5" High - Not for beginners - Complex wiring involved.  
Shipping Weight 6 lbs. .... \$53.15

## PSYCH-TONE

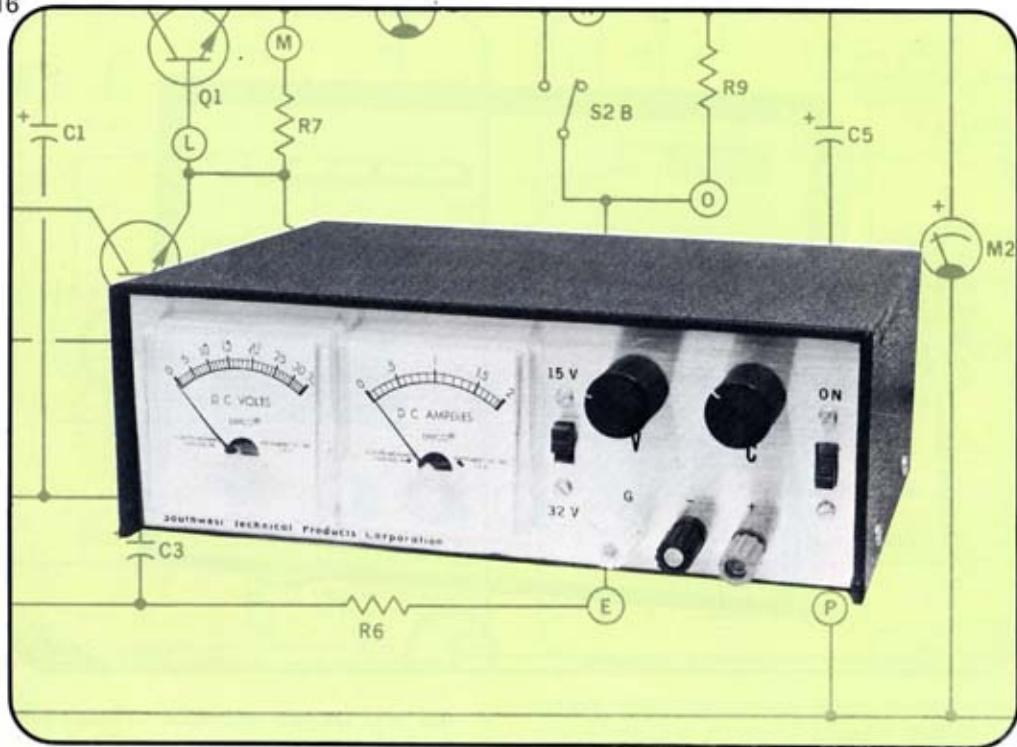
A PROGRAMMABLE MELODY  
SYNTHESIZER

WITH 28 CONTROLS AND A 63 NOTE  
MEMORY

Warning: Operation of this device in the presence of anyone over thirty may be hazardous to your health.



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



This high capacity variable voltage source not only will provide you with "rock stable" voltage for your experimental circuits, but will also provide protection against accidental shorts or circuit malfunctions. The over-current protection can be set for any amount of current that would be safe for your experiment. The supply will then "limit" current to this value or less. The power supply itself cannot be damaged by having its output leads shorted.

Cabinet is chrome finished on the inside. Front panel is our new brushed gold finish. This combined with the black vinyl covered top gives you a handsome instrument that looks far more expensive than it's actual modest cost.

# 143C Short-Proof Power Supply  
Shipping Weight 8 lbs. .... \$39.50

#### SPECIFICATIONS

Regulation	1% or 0.1 Volt, whichever is greater for 0-100% load
Voltage Range	0-32 Volts, 10 mA to 2 amperes, continuously adjustable
Stability	Less than 20-MV drift (constant ambient temperature with fixed load) over a 6-hour period
Input	105-125 Volts a.c.
Ripple	0.003% or 10 mV r.m.s. maximum

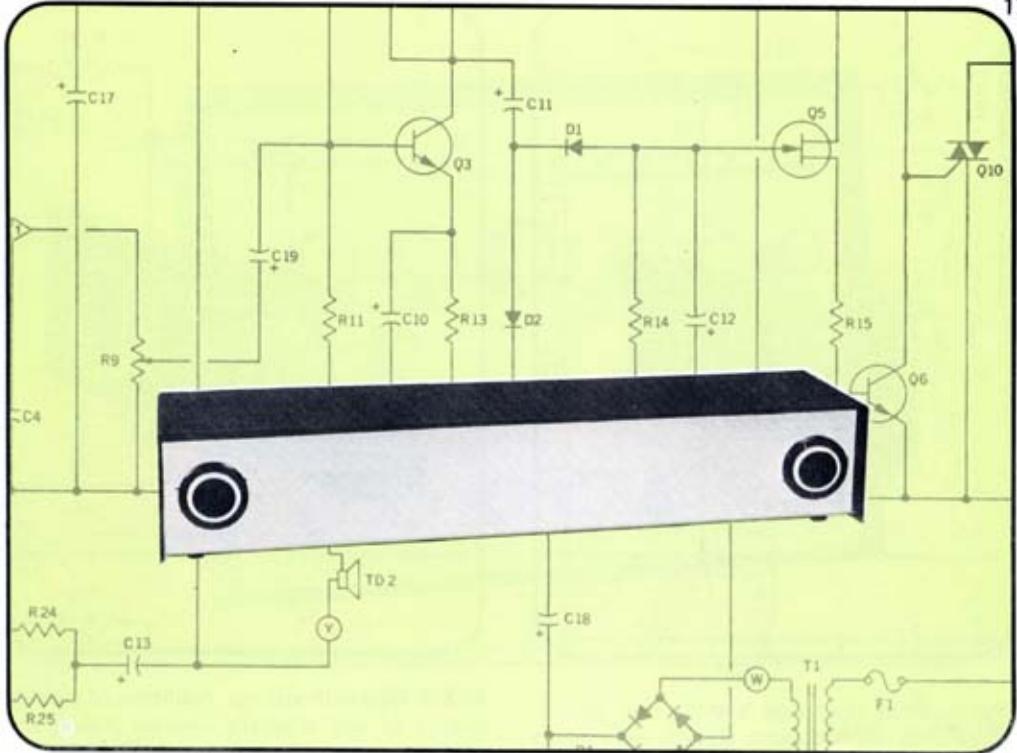
## SHORT PROOF POWER SUPPLY

SAFE - ADJUSTABLE CURRENT  
LIMITING CIRCUITS PROTECT YOUR  
CIRCUIT AND SUPPLY FROM  
DAMAGE BY EXCESSIVE CURRENT  
DRAIN

0-35 VOLTS DC AT UP TO 2.0 AMPS



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



Now you can equip your home with the same type intruder alarm system used by industrial plants, banks, and the IRS. The protected area is flooded with ultrasonic sound waves. Anything moving in the sound wave field causes a change in the amount of sound reflected back to the receiver and trips the alarm. This is the same "Doppler" principle used in Highway radar.

Easy installation — simply "aim" the unit at the area to be protected, and set the sensitivity. The integrated circuit and nine transistors operate on 12 Volts, so the alarm can be used in cars and boats too. The internal AC power supply will supply up to 1 Amp to any 12 Volt alarm device that is connected to the system.

# UA-2 Ultrasonic Alarm Kit.-  
Shipping Weight 5 lbs. .... \$37.25

#### SPECIFICATIONS

Size .....	13x3x2%
Operating Frequency .....	40 KHz
Area Coverage .....	Up to 200 Sq. Feet
Controls .....	Sensitivity and remote reset if desired
Power Requirements .....	117 Volts AC or 12 Volts DC
Outputs... 117 Volts AC or 12 Volts DC Available	

## ULTRASONIC INTRUSION ALARM

**EASY INSTALLATION**

**IMPOSSIBLE TO AVOID**

**AREA PROTECTION UP TO  
400 SQUARE FEET**

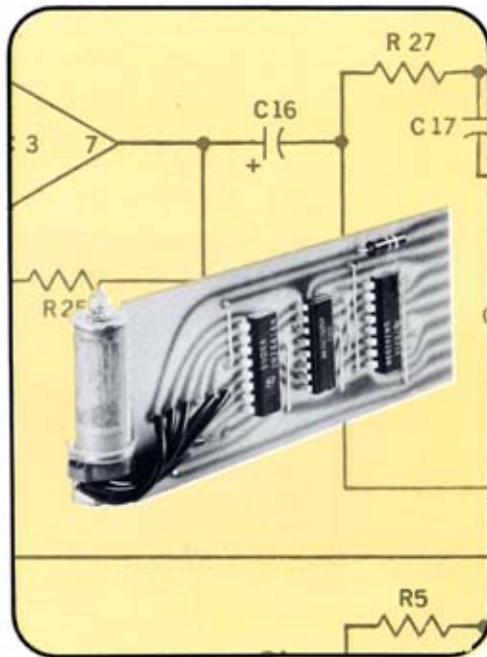
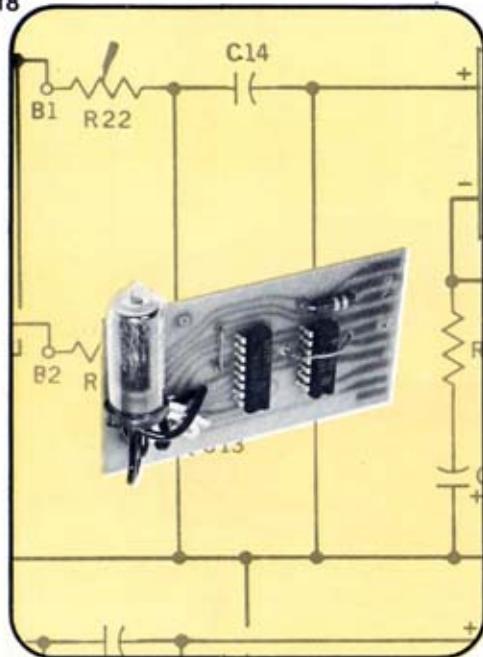
**PROVEN "DOPPLER" TYPE  
DETECTION**

**NEW FET INPUT STAGE**

**FET – TRIAC DRIVER**



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



## NIXIE COUNTERS

The most complete line of counter kits available. Now you can build your own custom digital instruments with any features and any type readout you prefer. Check the new lower prices on these all TTL Series 74 circuits.

**NIXIE type**—Our most economical counter. Counts 0 to 9 and resets. Complete with circuit board 7490, 7441, readout tube, wire, solder, etc.

Standard TTL logic levels—counting speeds typically 20 MHz. Requires +200 Volts DC @ 4 Ma. and +5 Volts DC @ 50 Ma.

# NX. **Decade Counter Kit** - 5 oz. .... \$9.95

**NIXIE type—Modulo 6**—Same features as above counter, but counts 0 to 5 and resets. Complete with circuit board 7492, 7441, readout tube, wire, solder etc. Needed to build timers, clocks, etc.

Logic Levels & power requirements same as # Nx-6. **Modulo 6 Counter Kit** - 5 oz. .... \$9.95

**NIXIE type with storage**. Addition of storage circuit to our standard counter makes the readout more pleasant to use. The counter will display the previous count until a "strobe" pulse is applied to change to the next reading. This results in a continuous nonblinking display. Complete with 7490, 7475, 7441, circuit board, readout, wire, solder, etc. Counts 0 to 9 and resets.

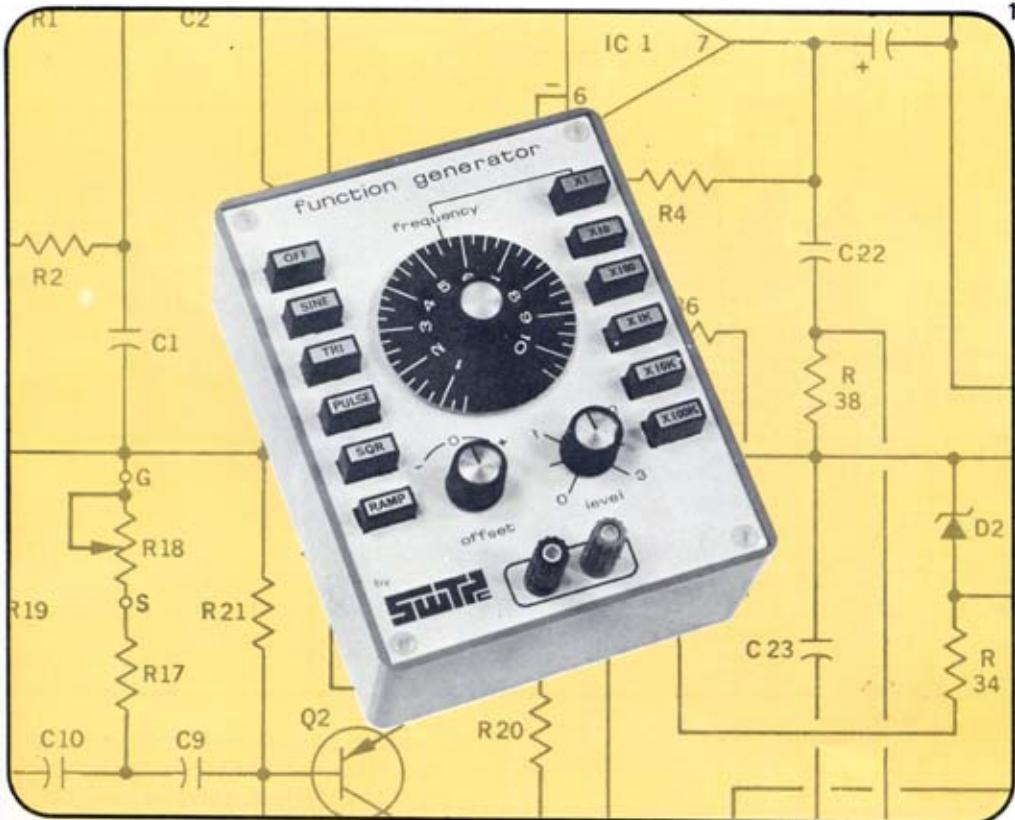
Standard TTL logic levels. Requires +200 Volts DC @ 4 Ma. and +5 Volts DC @ 70 Ma.  
# SNx. **Decade Counter with Storage Kit** - 6 oz. .... \$12.95

**NIXIE type Up — down counter**. Counting speeds of up to 32 MHz in either direction.  
—**Storage**—Counts any modulo from 2 to 10  
—**Present inputs**. This counter has every feature that you might need for sophisticated instruments. The counter can either add, or subtract counts. The display changes only on command for nonblinking readout. The counter may be wired to count any modulo desired and any number may be entered in the counter before counting is begun. Complete with 74192, 7475, 7441, circuit board, readout tube, wire solder, etc.

Standard TTL logic levels. Requires +200 Volts DC @ 4 Ma and +5 Volts DC @ 80 Ma.  
# Unx. **Up-Down Decade Counter Kit** - 8 oz. .... \$17.60



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



Can you imagine a function generator with all these waveforms at less than 20% of the cost of anything else like it? This is the ideal signal generator for general purpose testing. Use it for checking audio equipment, digital circuits, sweep systems, or anywhere you need a versatile waveform source. The output amplitude is adjustable up to 2.5 Volts P-P at a source impedance of 70 Ohms. Output coupling may be either AC, or DC, with a  $\pm 2$  Volt adjustable offset. Accuracy is 2% of setting.

Construction is easy due to the use of printed circuit prewiring of all switches and plug together construction. All waveforms are generated by a special integrated circuit. The gray impact plastic case is only  $5\frac{1}{4} \times 6\frac{1}{2} \times 2\frac{1}{2}$  deep and the instrument weighs less than 2.0 lbs.

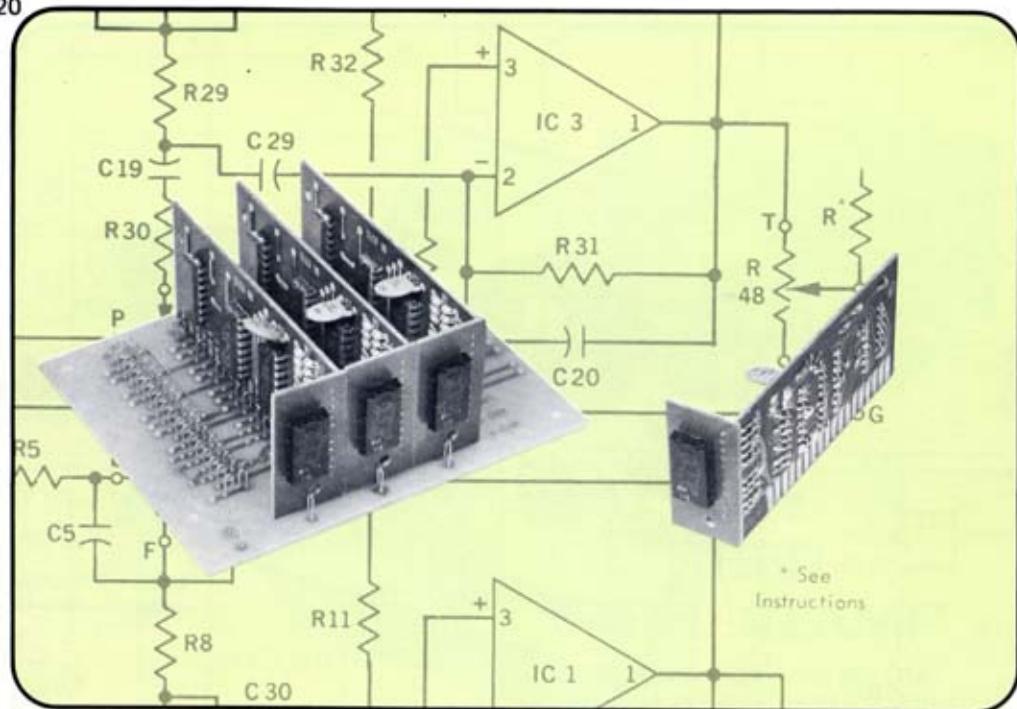
# 205-C Function Generator Kit -  
Shipping Weight 3 lbs. .... \$39.95

## FUNCTION GENERATOR

FIVE DIFFERENT WAVEFORMS -  
SINE - TRIANGLE - PULSE -  
SQUARE - RAMP  
FROM 1.0 Hz to 1.0 MHz



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



The readout modules use 8200 type TTL counters. These counters have typical counting speed of 25 MHz and parallel input terminals. This makes it possible to enter a number into the counter before actual counting is begun. Digital tuning indicators and "count down" type timers must have this feature. The four line BCD output from the counter is available on the mother board if needed. The counter output is stored by a 7475 latch circuit and displayed only upon command. This provides smooth "blink free" displays. The genuine MAN-1A readout display has 0.3 inch high seven segment type pattern. Connections are provided for variable brightness and for automatic blanking of unnecessary zero's.

## LED READOUT

### LARGE MAN-1A READOUTS

### PLUG-IN COUNTER CONSTRUCTION

### BOTH DECADE AND MODULO 6 AVAILABLE

### CHOICE OF MOTHER BOARDS

### PARALLEL INPUTS & BCD OUTPUTS

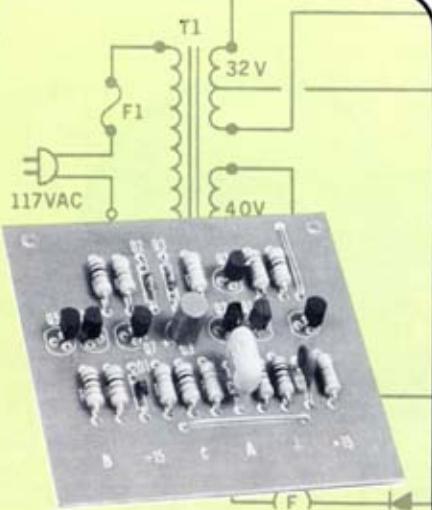
Now you can build digital projects with beautiful, rugged, large size LED readouts with a minimum of problems. Our mother board system combined with plug-in readout modules makes it possible to build a readout with the type and number of digits you want with a minimum of wiring and without special mounting hardware.

The mother boards are available in four digit, six digit and timer-clock arrangements. All mother boards are complete with high speed buffer circuits for the strobe and reset lines. This reduces fan-in to a maximum of two on any mother board input line. Mother board kits contain all necessary hardware for plug-in counter kits above.

SLED-10 or SLED-6 Counter Kit complete with readout (one decade).	4 oz. ....	\$14.95
MO-4 Mother Board Kit.	8 oz. ....	\$4.50
MO-6 Mother Board Kit.	8 oz. ....	\$5.50
TMO-7 Clock-Timer Mother Board Kit.	8 oz. ....	\$6.00



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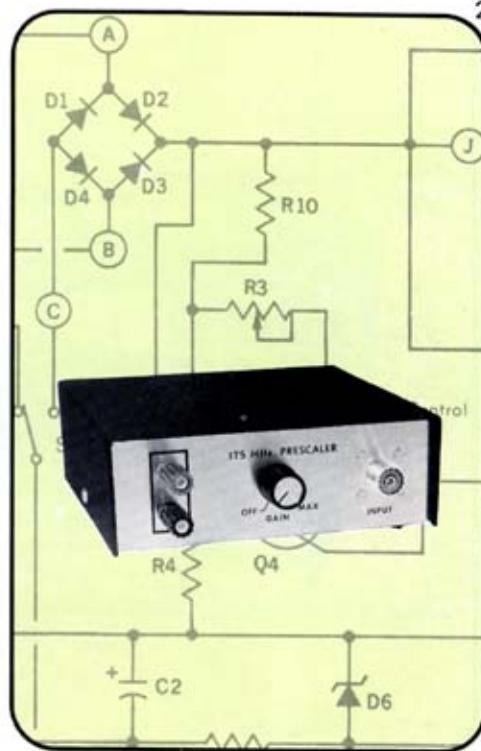


**LESS THAN .01% DISTORTION**  
**NOISE – 75 db BELOW FULL OUTPUT**  
 $\pm 1$  db from 1 to 500,000 Hz  
**FOR PHONO CARTRIDGES, TAPE**  
**HEADS, OR MICROPHONES**

## 195 PREAMP

We are happy to be able to offer a really outstanding preamp module for those who enjoy building up their own systems. The # 195 preamp is designed using integrated circuit techniques, but by using discrete components much better characteristics are obtained. It is impossible to get really superior noise figures in an IC preamplifier due to the processing steps that are required, each of which tends to add noise. It is also impossible to get precise resistor values and difficult to make both NPN and PNP transistors on the same chip. Our seven transistor circuit is a basic op-amp type system. You add the equalization needed for your application, just as you would with an IC op-amp module. The 3 x 3 fiberglass circuit board is designed so that it may be wired, or plugged into PC edge connectors. Distortion is less than .01% at any audio frequency. Suggested power supply is  $\pm 15$  Volts DC @ 10 Ma. which may be obtained from any of our power amplifiers except # 140. Separate supply available.

#195 Preamp Kit  
 Shipping Weight 8 oz. .... \$9.75



## 175 MHz FREQUENCY SCALER

**– 10 SCALING 2 to 175 MHz**  
**UP TO 10 VOLTS RMS INPUT**  
**ECL CIRCUITS-TTL OUTPUT**  
**USE WITH ANY COUNTER**

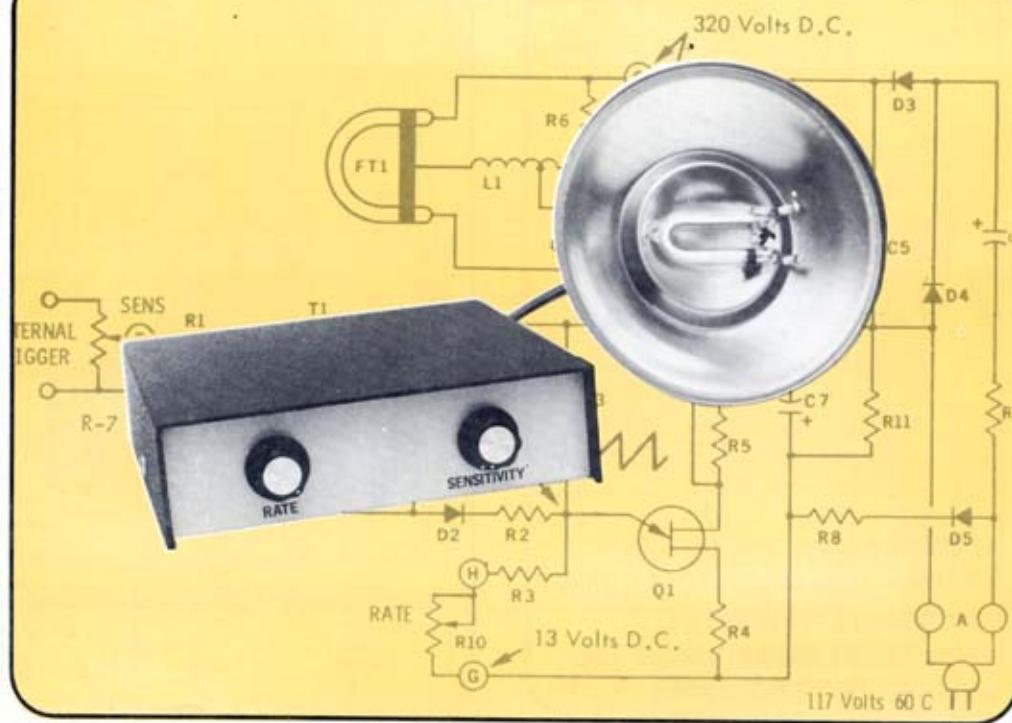
Extend the range of your FC-2 or any other counter to 175 MHz. This prescaler uses emitter coupled logic circuits that will count directly to 175 MHz. Used in combination with any frequency counter, this will allow you to measure CB, Ham and 2-way frequencies into the VHF ranges.

Prescaler and its power supply are in a 6x5½x2 metal case with vinyl covered top. Input sensitivity is 0.25 Volts RMS at 2 MHz decreasing to 0.5 Volts at 175 MHz. Output is 3.5 Volts for matching to TTL logic. This kit does the same job as similar equipment costing three times our price.

# 177 Prescaler Kit. 3 lbs. .... \$33.75



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**



One of our most popular electronic kits, the Strobe Light, will delight adults as well as the "teen-scene". Aside from practical uses in photography and general purpose stop-motion observation, this psychedelic strobe light can create the most unusual effects seen with musical groups or "at home" parties. The strobe flashing at a proper rate synchronized with the music in a semi-darkened room produces an illusory and bizarre scene. It reminds one of the old time "flicks" and "The Keystone Kops". Musical groups need not limit their purchase to just one strobe. Experiment with several — The effect is incredible.

The punched cabinet is chrome plated. Top covering is textured black vinyl. Cabinet matches Sonolite Color organ. Polished 5½" reflector.

"Medical opinion concerning the use of strobe lighting in darkened rooms is 'cautionary'. Prolonged use may induce hallucinations or trigger undesired side-effects. It should not be used in the presence of anyone subject to epilepsy."

X-149C Psychedelic Strobe Kit.	.....	\$17.50
Shipping Weight 2 lbs.	.....	\$17.50
X-149A Assembled Psychedelic Strobe	.....	\$29.95
Shipping Weight 2 lbs.	.....	\$29.95

## PSYCHEDELIC STROBE LIGHT

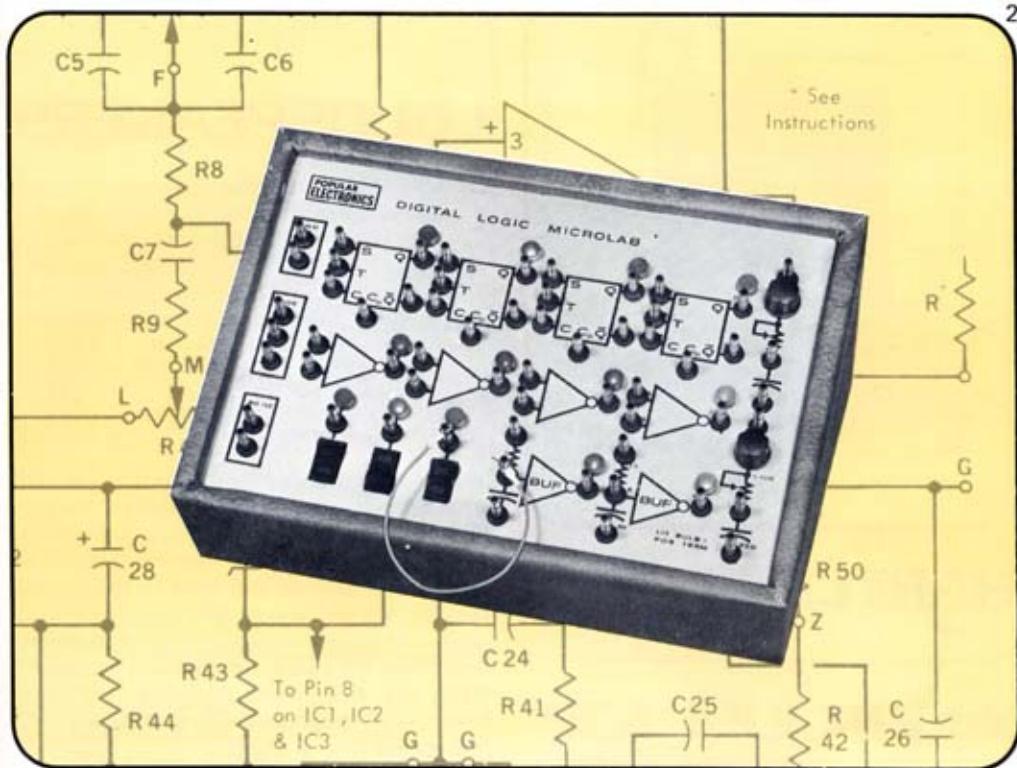
WIDE RANGE OF FLASH RATES

FLASH HEAD REMOTE FROM  
CONTROL BOX

INPUT PROVIDED TO SYNCHRONIZE  
FLASHES WITH YOUR MUSIC



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



The Microlab makes it possible to quickly check, or understand a variety of digital circuits. The Microlab includes four flip-flops, four gates, two buffers and three bounceless switch circuits that can be used to make hundreds of basic logic circuits. Each logic block has a light to indicate its state. Three types of input signals are available on the panel. Connections are made with simple clip-on leads that require no soldering and are easy to attach and remove. The entire instrument is "goof proof". No possible combination of connections, no matter how wrong, can damage the circuits.

The kit is complete with AC power supply and vinyl covered outer case. An ideal companion for the Microlab is available. Don Lancaster's "RTL Handbook" presents basic digital logic in an easy to understand, non-mathematical manner. With this book and the Microlab anyone can have a good understanding of digital circuits in a very short time.

# DLM Complete Kit as shown -	\$29.95
Shipping Weight 4 lbs.	
# "RTL Handbook" by Don Lancaster	
Shipping Weight 1 lb.	\$5.50

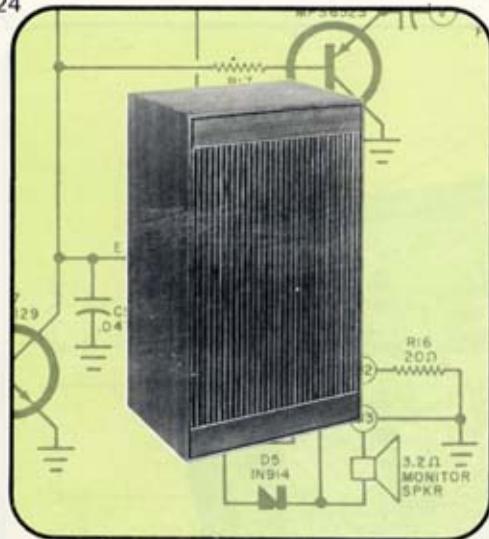
## DIGITAL LOGIC MICROLAB

LEARN HOW DIGITAL CIRCUITS  
WORK

VERIFY DESIGNS QUICKLY  
EXCELLENT TEACHING AID



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



## HARTLEY-LUTH

## SYSTEMS

Hartley speaker systems are available in a wide range of sizes. From the new new Zodiac 72, to the magnificant Concertmaster VI.

All cabinets are hand crafted and built in matched pairs to insure a similar grain pattern on both speakers in a stereo system. Hartley systems use the unique "Sound-sorber" acoustical treatment inside the cabinet to control resonances from the cabinet, and internal air volume. This almost totally eliminates undesirable "boom" and helps produce the natural sound that characterizes all Concertmaster systems.

Write for our free brochure illustrating all of the Hartley systems, and loudspeakers.

## LOUDSPEAKERS

Provides the desired clean, smooth sound of a wide-dispersion direct-radiating speaker. Can be used to complement the Hartley 220MSG, 218MSG or 224MSG speakers. With magnetic suspension. All-polymer cone. Satin-finished cast aluminum frame. 6.1 pound Alcomax II magnet. Frequency response 1,000 to 25,000 Hz. Impedance 5 to 8 Ohms.

Model 207 MSG 7-Inch Midrange/Tweeter. \$110.00

The most advanced and versatile 10-inch speaker today, this unique speaker employs a two-section all-polymer cone and a dual voice coil which directs high frequencies to the tweeter section and lows to the woofer portion. Patented magnetic suspension principle precisely controls cone excursions. Supported by a satin-finished cast aluminum frame and 6.1 pound Alcomax II magnet. Frequency response 20 to 25,000 Hz. Impedance 5 to 8 Ohms.

Model 220 MSG 10-Inch Full Range True Coaxial Speaker . . . . . \$145.00

This workhorse is capable of reproducing a 16-cycle pedal tone fundamental of the organ, easily and without coloration. Magnetic suspension capably handles the wide excursions produced by such low frequencies. The all-polymer cone delivers a tight, clean bass instead of the flabby-sounding lows heard on speakers with conventional paper cones. Satin-finished cast aluminum frame. Mammoth 14 pound magnet structure. Frequency response 16 to 4,000 Hz. Impedance 12 to 16 Ohms.

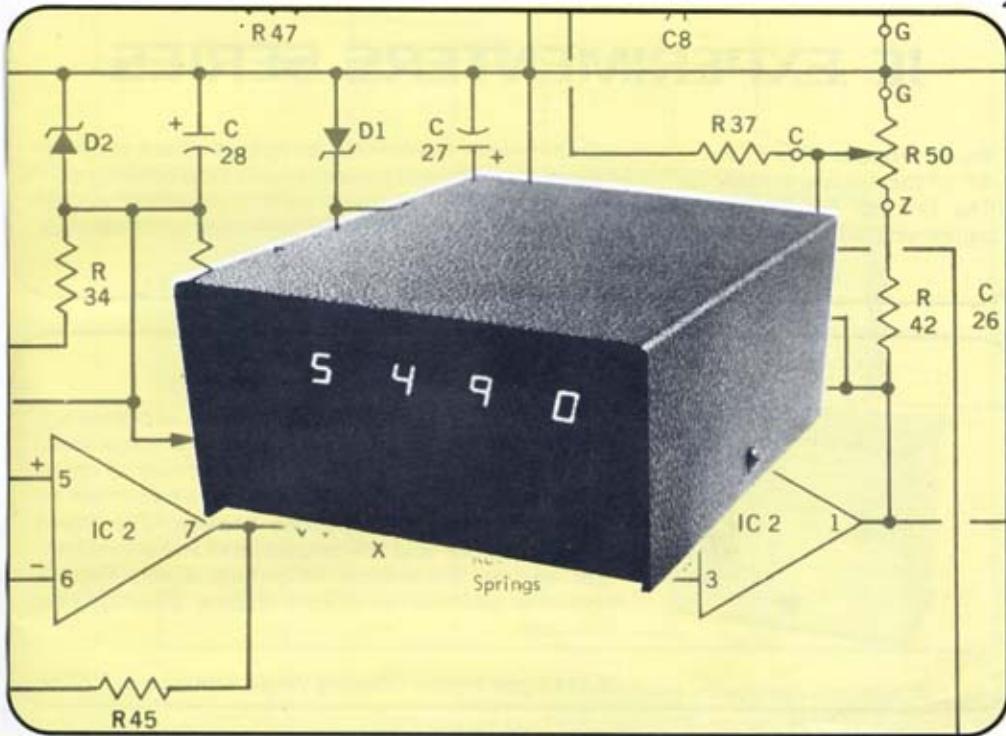
Model 218 MSG 18-Inch Bass Speaker . . . . . \$225.00

This two-foot woofer will handle the deepest sounds at volumes up to a thunder clap with remarkable clarity and distinction. This is the ultimate in bass reproduction. Novice or audiophile, the difference is clear to the ear. Magnetic suspension. Satin-finished cast aluminum frame. Mammoth 14 pound magnet structure. Frequency response 16 to 4,000 Hz. Impedance 12 to 16 Ohms.

Model 224 MSG 24-Inch Super Bass Speaker . . . . . \$275.00



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



At last it is ready. The instrument that many of our customers have requested. A high accuracy digital readout tachometer. This instrument measures your engines RPM ten times a second and displays it on four bright red 0.3 inch high LED readouts. The phase locked loop system used in this instrument allows ten times better accuracy than systems that simply count breaker point openings. This prevents large errors at low RPM's where the errors in some instruments can be 25% or more. Once calibrated properly this tachometer is accurate to  $\pm$  one digit on the right most figure.

All connections are made on printed circuit boards. The six smaller boards are connected together by the etched pattern on the mother board that mounts them, for fool proof wiring accuracy. Only three wire connections in the whole kit. The Tachometer is housed in an attractive black vinyl covered aluminum box 4½ wide by 2½ high by 7 inches deep. May be mounted on top of, or under the dash in your car. Simple hookup - only +12 volts, ground and distributor point connections are needed.

TACH-1 Kit. Shipping weight 3.0 lbs. \$79.50

**DIGITAL  
TACHOMETER**  
400 to 9,990 RPM WITH NO RANGE  
CHANGING  
4 DIGIT LED READOUT  
WORKS WITH 4, 6 OR 8 CYLINDER  
ENGINES



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas

# IC EXPERIMENTERS SERIES

We are proud to offer this excellent series of simple, inexpensive integrated circuit projects. All of these projects make use of integrated circuits and printed circuit type construction. The finished projects are useful as demonstrators of digital circuit operation, or test equipment. All are packaged in a combination of brushed gold and wood grain cabinets.

## SIGNAL INJECTOR -



A simple one IC circuit that produces a wideband signal that can be used from audio to several megacycles. The signal injection technique is a fast way to check radios and audio equipment. The entire circuit can be quickly tested with only one hookup. The Signal Injector has AF and RF output jacks and a level control to set the amount of output signal. Enough power is available to drive a speaker directly. Less batteries.

# 171 Signal Injector - Shipping Weight 2 lbs. .... \$7.30



## SHIFT REGISTER -

A four transistor, three IC project that demonstrates shift register operation of the type used in digital computers. This demonstrator will store information and feed it back in the same way as the memory in a large computer. This project requires .3 Amps for operation and must be used with a power supply as listed for these projects (SIP) or an equivalent power supply.

# 172 Shift Register - Shipping Weight 2 lbs. .... \$9.75



## 100 KHz FREQUENCY STANDARD -

This simple one IC project will provide you with an accurate stable source of 100 KHz square waves. This is an ideal instrument for calibrating radio receivers, scopes and signal generators. It can also be used as a high frequency clock source for circuits involving digital IC circuits. A trimmer adjustment is provided so that the output can be beat against WWV, or any other primary standard for optimum accuracy.

# 173 100 KHz - Shipping Weight 2 lbs. .... \$10.85



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**

### LOGIC DEMONSTRATOR -

A one transistor, one IC project that visually demonstrates the action of OR, NOR, AND, NAND, Exclusive OR, and Exclusive NOR digital gates. This project teaches the most basic action used in digital systems.

# 182 Logic Demonstrator - Shipping Weight 2 lbs. .... \$8.25



### BINARY COUNTER -

This three IC, four transistor project demonstrates the binary counting system. Each time the count button is pushed the counter advances to the next number in the "binary coded" decimal (BCD), or 8421 system. The circuit includes signal conditioning, counting and lamp driving circuits. This is another very basic digital concept.

# 183 Binary Counter - Shipping Weight 2 lbs. .... \$8.90



### FLIP-FLOPPER -

This two IC one transistor circuit demonstrates the action of all the various type of digital flip-flops; RS, Colocked RS, Toggle, Type D and JK flip-flops. Two switches are used to set a zero, or one on the inputs and a pushbutton is used to toggle the circuit. The result is displayed on two lamps that indicate the Q and Q states.

# 184 Flip-Flopper - Shipping Weight 2 lbs. .... \$8.50



### DUAL CLOCK -

This one IC two transistor project is actually a dual multivibrator circuit. The two output square waves can be any frequency from approximately 1 . Hz to 30 MHz. The frequency is determined by the size of the capacitor attached to the external posts. Output is 3.0 Volts P-P minimum with an external 5 Volt supply.

# 176C Dual Clock - Shipping Weight 2 lbs. .... \$9.70



### NO-BOUNCE PUSHBUTTON -

#### TWO-TONE ALARM -

A one IC, one transistor circuit that produces a distinctive sound that cannot be missed anywhere. Useful as an alarm, signaling device, etc. Output switches from 500 to 1000 Hz five times a second. Less batteries.

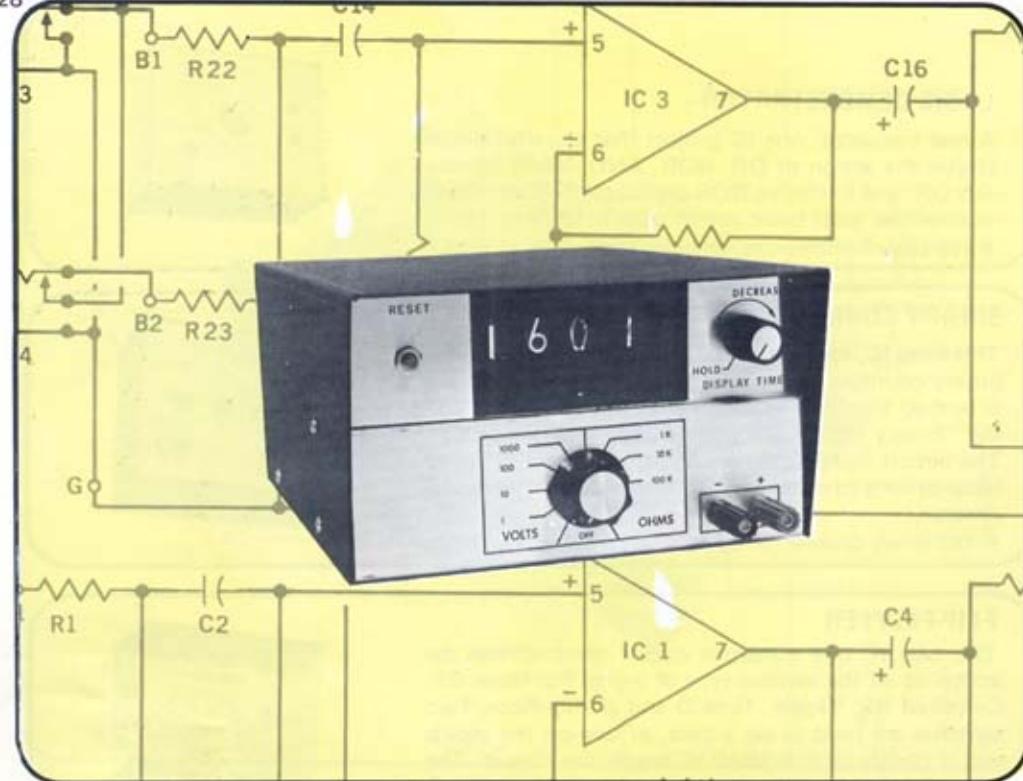
# 174 Two-Tone Alarm -  
Shipping Weight 2 lbs. .... \$6.90

An easy to build one IC project that is most useful for checking digital circuits. The integrated circuit is connected as a Set-Reset type flip-flop. This conditions the pushbutton signal and eliminates any bounce, or arcing that could result in multiple triggering of digital circuits being checked.

# 181 No-Bounce Pushbutton  
Shipping Weight 2 lbs. .... \$5.90



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



## UNIVERSAL DIGITAL INSTRUMENTS

The various instruments described here all use the same main frame, power supply and readout shown in the photo above. The Volt-Ohmmeter plug-in is shown installed. By using the same supply and readout for all of the instruments you can own a complete digital laboratory for considerably less than you could if complete instruments were purchased. The expensive portion of the instrument is used for all plug-in units saving needless duplication.

The power supply provides all necessary voltages for the four plug-in modules. The 3½ digit Nixie readout uses high speed TTL logic. Typical counting speed is 20 MHz. The all metal cabinet features brushed gold front panels and a black vinyl covered top. 8x4½x9 inches deep.

Cabinet power supply and readout as shown (less any plug-ins) - Shipping Weight 9 lbs. .... \$59.95

## VM-1 DIGITAL VOLT- OHMMETER

MEASURES UP TO 2000 VOLTS  
10 MEG OHM INPUT IMPEDANCE  
BETTER THAN .5% ACCURACY  
DUAL-SLOPE CONVERSION

Now you can build a digital voltmeter with accuracy far better than any "meter readout" instrument. Not only do you get direct readout, but also a faster, more accurate, unambiguous reading with better resolution. Now thanks to new low cost integrated circuits you can own a superior instrument of this type for almost the same cost as an old fashioned meter job.

# VM-1 Voltmeter Plug-in -  
Shipping Weight 2 lbs. .... \$29.95



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas

# FREQUENCY COUNTER

Now everyone can afford to own a frequency counter. A counter is the ideal instrument for checking signal generator frequency, transmitter frequency, etc. Since the circuit actually counts each cycle of input signal the accuracy is within  $\pm 1$  count or better. The circuit features a FET input of 1 Meg, or higher impedance, a synchronized switch gate system and variable display timing generator. Brushed gold panel to match main frame.

# FC-2 Frequency Counter Plug-in Kit  
Shipping Weight 2½ lbs. .... \$29.95

## DIGITAL-THERMOMETER

Now temperature can be measured quickly and easily with a digital readout system. This plug-in makes it possible to measure or monitor temperature over a 70° to 800°F range with an accuracy of 1% or better. This is an ideal instrument for use in photography or chemical applications where temperatures must be constantly monitored. The electronic circuit makes sixty measurements every second and displays the result on the large bright main frame readout tubes.

# THR-1C Complete kit with probe and chassis -  
Shipping Weight 1.5 lbs. .... \$16.80

## TIME PERIOD PLUG-IN

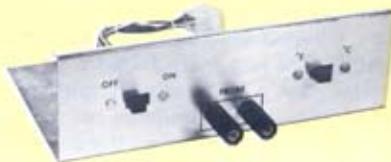
This instrument consists of a precision oscillator, divider circuits and a controlled gate. This instrument has six ranges and can be used to measure accurately the time interval over which an event occurs, or between two events; to as close as 20 Microseconds. Full scale ranges are .01, .1, 1, 10, 100 and 1000 seconds.

The counter may be started and stopped with a microphone, photocell, or switch. When the start signal occurs the gate routes the pulses from the oscillator into the counter. When the stop signal occurs the counter is stopped. The number of counts is directly proportional to the time between the two events. This instrument can be used to check camera shutter timing, bullet velocity and similar applications.

# TM-2 Time Period Plug-in  
Shipping Weight 2½ lbs. .... \$38.75



**MEASURES FREQUENCY DIRECTLY  
1,000 Hz to 20 MHz FULL SCALE  
RANGES  
.01% ACCURACY-LINE TIME BASE**



**0-100° C OR 0-212° RANGE  
INSTANT CHANGE FROM °C TO °F  
60 SECOND MAXIMUM RESPONSE  
TIME**



**Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas**

Dear Electronic Kit Builder:

As we near the end of our ninth year in the electronic kit business, all of us here would like to thank you out there for your support and encouragement. We appreciate all the suggestions and comments on our products. We appreciate your patience when we have had to backorder kits and when we have messed up orders, or packed incorrect parts. I suppose being human, that we will continue to make a few mistakes now and then, but we will continue to try and keep it down.

In this catalog we are introducing our new "Tiger .01" #207/A amplifier. This amplifier uses a new push-pull cross-coupled driver system that we think will be a milestone in amplifier development. It will be very interesting to see what the people who test Hi-Fi equipment have to say about this one. We ourselves found the results rather hard to believe, but finally had to conclude that we were not doing anything wrong and that the analyzers were in proper working order. For the first time that we know anything about we have on our hands an amplifier circuit that produces less IM than harmonic distortion. Everyone seems to agree that the IM figure is more significant and that it correlates better with what your ears tell you about the sound. The intermodulation distortion (IM) of this amplifier is less than .01% up to the rated output of 60 Watts. This is ten times better than a number of amplifiers that are highly regarded and considered as good as anything available on the market. It is at least 100 times lower in distortion than many of the so called Hi-Fi amplifiers that brag about having 1% distortion figures.

"Tiger .01" is available in a neat little package that may be expanded to either a stereo, or quad system by simply changing the mounting base and buying the additional amplifiers to add into the system. Four of these will fit a standard 19 inch relay rack perfectly. This amplifier comes with a perf metal cover, output level meter on the front and many other delux features as standard items in the kit.

The #198/A preamp also uses our new cross-coupled push-pull circuit for its gain modules. This is the only popular price preamp available that features switch gain control steps. This insures an exact, known setting each time the control is used and also insures that the output is truly flat when no tone control switches are depressed. The circuit is built using a "mother board" system that eliminates much wiring that would otherwise be necessary. A very minimum of wiring is needed once the circuit boards are assembled and soldered. This makes what is a quite complex circuit easy enough for even beginners to assemble.

We are proud of the quality of our parts and engineering. If you do not agree that you have a bargain when you receive your kit, we will happily refund your money upon return of the kit in its original condition.

D. Meyer



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas

## TRANSISTORS

2N3055	\$2.05	7402	.59
2N3528	1.63	7404	.71
2N3877	.47	7447	3.25
2N4400	.60	7473	3.55
2N4402	.60	7475	1.18
2N4870	.75	7476	2.05
2N4871	.68	7490	1.30
2N4919	1.90	7492	2.30
2N4922	1.48	74192	2.30
2N5087	0.81	MC1303L	4.35
2N5129	.25	NE565A	2.20
2N5139	.22	NE540K	4.35
2N5210	.72	N5111A	4.50
40409	1.14	N5558V	2.65
40410	1.32	N8280A	1.75
40668	1.58	N8288A	2.10
L148B (2N5777)	\$1.45	ECL 9528	2.10
MJ802	4.86	7406	5.60
MJ4502	5.26	7493	1.75
MJE2955	2.90	LM311	2.30
MJE3055	1.50		4.75
MPS3638	.45		
MPS6521	.90		
MPS6523	.97		
MPS6566	.57		
MPU131	.79		
SS1122	1.60		
SS1123	1.35		
TIS43	1.02		
TIS58	.62		

## INTEGRATED CIRCUITS

SP321A	\$2.48	Germanium diodes	\$ .15
SP380A	1.34	VS-148 2 Amp Bridge	1.00
SP322B	2.75	3.3 V zener (IN4728)	.50
MC717P	1.08	3.9 V zener (IN4730)	.50
MC723P	1.35	4.7 V zener (IN4732)	.50
MC724P	1.08	5.6 V zener (IN4734)	.50
MC723P	1.35	10 V zener (IN4740)	.50
MC724P	1.08	24 V zener (IN4749)	.50
MC723P	1.35	27 V zener (IN4750)	.50
MC724P	1.08	36 V zener (IN4753)	.50
MC723P	1.35	IN914 Silicon diode	.35
MC724P	1.08	IN3754 Silicon diode	.32
MC785P	1.25	IN5060 Rectifier - 1 Amp	.56
MC789P	1.08	IN5624(CA-15) Rectifier - 3 Amp	.68
MC791P	2.35	40583 - Trigger diode	.61
MC799P	1.08		
7400	.59		

## DIODES AND RECTIFIERS

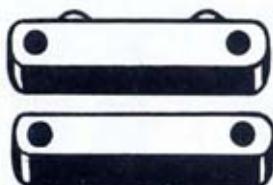
Germanium diodes	\$ .15
VS-148 2 Amp Bridge	1.00
3.3 V zener (IN4728)	.50
3.9 V zener (IN4730)	.50
4.7 V zener (IN4732)	.50
5.6 V zener (IN4734)	.50
10 V zener (IN4740)	.50
24 V zener (IN4749)	.50
27 V zener (IN4750)	.50
36 V zener (IN4753)	.50
IN914 Silicon diode	.35
IN3754 Silicon diode	.32
IN5060 Rectifier - 1 Amp	.56
IN5624(CA-15) Rectifier - 3 Amp	.68
40583 - Trigger diode	.61

## MISC.

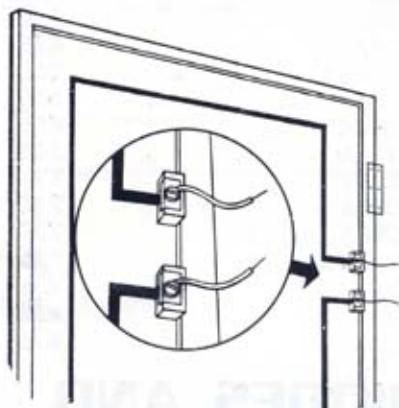
B5750-Nixie Readout	\$6.75
ZM-1000 Nixie Readout	5.75
Socket (AM-1000) for 2m-1000	.60
MFT-110 Flash Tube	3.50
MAN-1A Readout	10.75



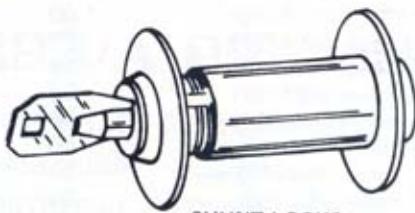
# COMPUTERMATIC ALARM



## MAGNETIC SWITCHES



## LEAD WINDOW FOIL



## SHUNT LOCKS



## UNDERDOME BELL

## FULLY AUTOMATIC - JUST TURN A KEY

## PROFESSIONAL TYPE EQUIPMENT

## THE ULTIMATE IN SWITCH & TAPE SYSTEMS

**SIREN** - 115 Volt AC motor driven. Suitable for outdoor installation. Very high sound output level.

# SEE. Shipping weight 3 lbs. . . . \$15.95

**MAGNETIC SWITCHES** - for doors, or windows. Operate with up to 1/2 inch gap between switch and magnet. Potted reed type switch cannot be damaged by moisture, or corrode. Magnet will operate switch from any side. 2 3/15 x 1/2 x 1/2.

# REE \$2.35 ea.

**LEAD WINDOW FOIL** - 3/8 wide - .0008 thick. Protects windows from being used to gain entrance. Lead foil will break and trip your alarm if the glass cracks. Blocks simplify connecting to the window tape.

**SHUNT LOCKS** - with sleeve and two washers. Make it possible to enter a protected area without tripping the alarm. Furnished with two round type keys. These locks are much more difficult to pick than flat key types.

**UNDERDOME BELL** - 8 inch, 6 Volt DC bell with heavy gauge steel gong. This bell will operate directly from our No. CA or No. UA-2 alarm systems. Will operate from standby battery if power line is cut.

# UDB. Shipping Weight 6 lbs. \$11.25



Southwest Technical Products Corporation, 219 W. Rhapsody, San Antonio, Texas



The most automatic and easy to use alarm system yet built. New digital integrated circuits as used in computers now make it possible to provide you with the ultimate in convenience. The control system uses a "solid, reliable" tape and switch protection system. To use this automatic alarm you simply insert the key and turn the system ON. If the protection loop is okay and all protected doors are closed, the green light goes on and you know that the system is armed. You may now go out ANY of the protected doors. The digital circuit counts "two" and prepares the circuit to trip the alarm on the next opening of the protection loop, all indicator lights go off. When any protected door is next opened, or window tape broken, the circuit trips the alarm and locks itself into this condition. You have up to 60 seconds to insert your key in the switch-lock and turn off the alarm. The amount of delay is adjustable from 5 to 60 seconds. If the system is not turned off with the key, the bell, light, siren, or whatever is used; goes on when the delay timer runs out.

# CA Alarm Kit -  
Shipping Weight 5 lbs. .... \$19.50