

● **Electronics for home and industry**

Catalogue No. 1972-1



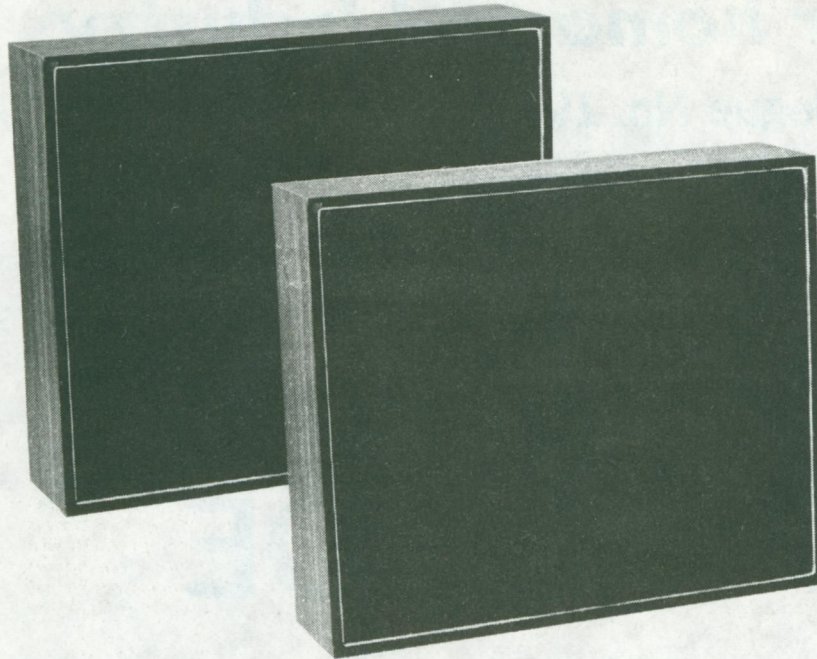
# TENCO

ELECTRONICS LTD.

# BUYER'S GUIDE



# NEW PRODUCTS & late additions!



## ECONOMY Stereo Pair

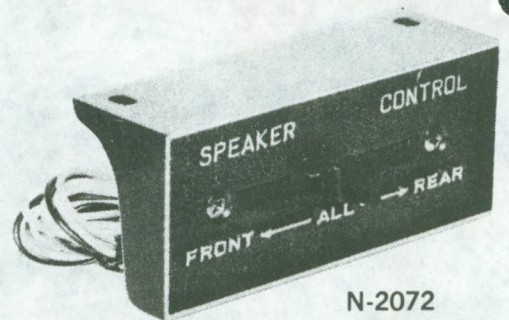
SP-5. Outstanding speaker value featuring a pair of 4½ ceramic magnet speakers with a full 5 watt rating. Wooden enclosures measure 12" H x 10" W x 3" deep, and can be shelf mounted or hung on wall. Enclosures are finished in dark walnut stain, decorator grille cloth is in contrasting brown and black weave with white border trim. Two 10 ft. extension cords with spade lugs. 8 ohms impedance.



## 4-SET TV-FM COUPLER

9022. Up to four TV or FM sets can be fed from a single antenna input with this handy device. Handles either colour or black & white TV with absolute minimum loss of signal strength even when all 4 sets are operating at the same time. Brown plastic case measures 3" x 2½" x ¾" and can be mounted at any convenient location near antenna lead-in. 300 ohms input /output impedance.

## AUTO SLIDE CONTROLS



N-2072

Latest design in speaker control for automotive audio systems. Fingertip touch gives instant control of FRONT — REAR — BOTH speakers. Smart black & chrome finish. Completely wired, mounting hardware and instruction included.



3318. AUDIO CABLE. 20 ft. shielded, 3.5mm plug to 3.5mm jack.



4909. 6-PIN DIN PLUG.

4910. 6-PIN DIN JACK.

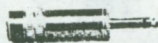


4959. 2-PIN INLINE JACK, DIN "T" TYPE.



5059. MONAURAL JACK. Open circuit type for chassis mtg. Square bakelite housing with tinned solder lugs.

5060. As above, STEREO.



5062. ADAPTER, 3.5mm plug to inline stereo phone jack.



5064. ADAPTER, 3.5mm jack to mono phone jack.

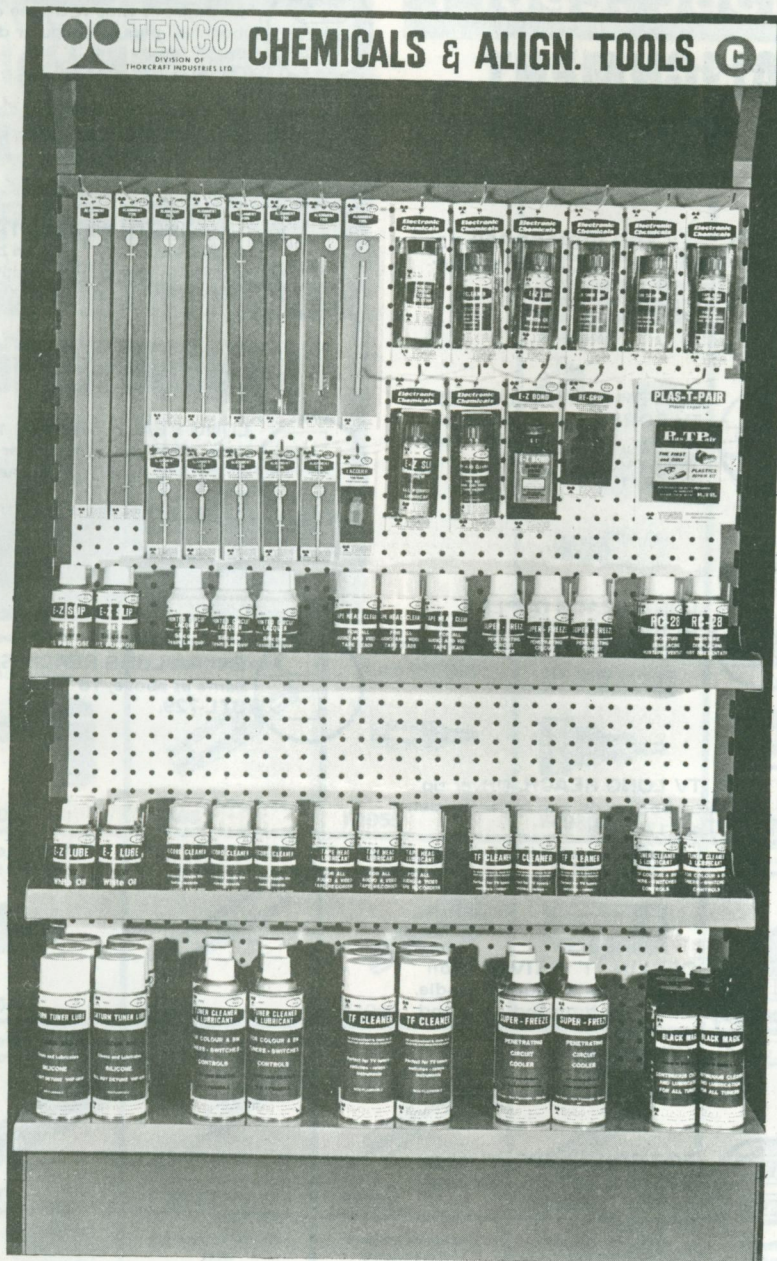


N-2072A

Same as above, but dual controls for STEREO SYSTEMS. Controls up to four speakers independently — LEFT — RIGHT — FRONT — REAR — ALL. Completely wired, mounting hardware & instructions included.

# MARKETING PROGRAM C

## Chemicals and Alignment Tools



CHEMICALS & ALIGNMENT TOOLS includes every popular chemical used by radio/TV technicians, kit builders, hobbyists, and audio enthusiasts. The popular PLAS-T-PAIR repair kit — STOP-ARC — TUNER CLEANER/LUBE-AUDIO & VIDEO TAPE HEAD CLEANER & LUBRICANT — SUPER FREEZE — BLACK MAGIC. Home consumer items are bubbled in 3 oz. cans, service and industrial products packaged in 6, 8 or 16 oz. cans. Alignment tools are carded as illustrated, and include long reach drivers, hex drivers and duplex aligners.

**RC-28 MOISTURE DISPLACER.** Displaces water and moisture from electrical and electronic equipment. Gives both indoor and outdoor protection. Leaves invisible molecular film that is easily removed with regular solvent.

**C-6/28.** 6 oz. spray can.

**E-z LUBE.** A highly refined white oil formulated for electronic and electrical equipment, will not gum or tarnish. Use also on office equipment, guns, fishing equipment, household appliances.

**C-3/40.** 3 oz. spray can.

**C-6/40.** 6 oz. spray can.

**PLAS-T-PAIR.** Not a cement, but an extremely effective plastic repair kit that permanently repairs almost any object made of plastic. Kit contains 30 gram bottle of powder and 30cc bottle of liquid plus mixing equipment and detailed instructions. Use to repair radio & TV cabinets, eyeglass frames, dentures and countless other items made of plastic.

**C-100**

**RE-GRIP.** Cleans and revitalizes hardened and glazed rubber. Use on drive systems of phonographs and tape decks; on toys with rubber friction parts; typewriter rollers, office equipment and household appliances. Non-flammable and non-volatile.

**C-182B.**

**E-Z-SLIP.** New Silicone all-purpose lubricant for home industrial, automotive and marine use. Stops squeaks, prevents rust, waterproofs and lubricates.

**C-3/200.** 3 oz. spray can.

**C-6/200.** 6 oz. spray can.

**TF TUNER CLEANER.** A no-residue solvent and cleaner for TV tuners, and all electronic and electrical equipment. Because of its low surface tension and high density, this cleaner penetrates microscopic crevices with a flush/wash action, leaving absolutely **NO RESIDUE**. Use on colour and black and white TV tuners, turntables, tape decks, relays, switches, precision instruments.

**C-300.** 3 oz. spray can.

**C-600.** 6 oz. spray can.

**C-1600.** 16 oz. spray can.

**TAPE HEAD CLEANER.** Formulated at the request of electrical and electronic engineers and technicians for a top grade cleaner. Because of its excellent dielectric properties and high current resistance it can be used to clean any part of a tape deck system without disassembling. It can even be used while equipment is operating.

**C-THC300.** 3 oz. spray can.

**C-THC600.** 6 oz. spray can.

**SATURN TUNER LUBE.** Cleans and lubricates colour and black/white TV tuners, and will not detune VHF or UHF. Saturn is one of the highest quality lubricants on the market. It contains Silicone plus inert solvents and **NO OIL**. It is safe to use on any electrical or electronic equipment.

**C-355.** 3 oz. spray can.

**C-655.** 6 oz. spray can.

**C-1655.** 16 oz. spray can.

**TAPE HEAD LUBRICANT.** A top quality lubricant for all audio and video tape recording equipment. Has a high silicone content and inert solvents, and NO OIL. It leaves a light, protective film on tape heads thus reducing friction and eliminating tape squeeks. Completely harmless to plastic, insulation and other components. **C-THL-355.** 3 oz. spray can. **C-THL-655.** 6 oz. spray can.

**RECORD CLEANER & ANTI-STATIC.** Increases record and needle life and reduces static and noise from surface of record. Just one light spray is all that is needed, then a quick wipe with special record cloth included.

**C-371.** 3 oz. spray can.

**C-671.** 6 oz. spray can.

**E-Z BOND.** A high quality, flexible contact adhesive that cements just about anything. Use for mending wood, rubber, plastic, vinyl, ceramic, metal, stone leather ...anything that needs repairing. Forms a waterproof, chemically resistant bond with a dielectric strength of up to 500 volts per mil. 3 oz. bottle.

**C-372-B.**

**SILICONE RESIN LACQUER.** A protective coating for printed circuits that provides a tough and transparent film. Protects circuit against failure due to moisture or humidity and at the same time gives effective insulation to prevent arcing and shorting. 6 oz. spray can. **C-603.**

**SUPER FREEZE.** Pinpoints and locates intermittent condensers, resistors, coils and other circuit components by lowering their temperature under operating conditions. Use also to chill delicate wires and parts while soldering, and to shrink machined parts for press fit.

**C-612.** 6 oz. spray can.

**C-1612.** 16 oz. spray can.

**ETCH RESIST LACQUER.** This chemical is used for drawing the circuit on printed circuit boards. Fast drying and easy to apply — 1/4 oz. bottle with brush. **C-HA624**

**PRINTED CIRCUIT ETCH SOLUTION.** For dissolving the copper layer on printed circuit boards. Fast acting, safe and easy to use. 4 oz. bottle. **C-HA628.**

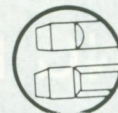
**2-IN-1 TUNER CLEANER & LUBRICANT.** This all purpose chemical does a first class job of both cleaning and lubricating electrical and electronic components. Use on colour and black/white TV tuners, switches, relays controls, motors etc. Contains silicone and high quality mineral oil, and is safe for plastics.

**C-690.** 6 oz. spray can.

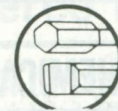
**C-1690.** 16 oz. spray can.

**STOP ARC.** Stops arcing and corona in TV high voltage circuits. Stop Arc is an insulating material of high dielectric strength, and is simply sprayed on the parts with short, dusting strokes. 6 oz. spray can. **C-692.**

**BLACK MAGIC.** Continuous cleaning and lubrication for both colour and black/white tuners. Black magic is a thick concentrate that polishes the contacts each time a channel is changed. It is safe for plastics, and will not cause drift or de-tuning. 8 oz. spray can. **C-880.**

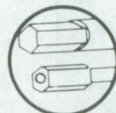


**HEX & NIBS.** .100" hex with rectangular nib one end; .056" square plus rectangular nib other end. 5" long. **CTL-440.**

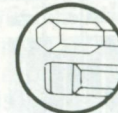


**ADMIRAL, ZENITH** etc. .100" hex on both ends with one end undercut, plus rectangular driver. 5" long. **CTL-606**

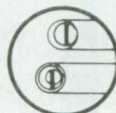
## ALIGNMENT TOOLS



**HEX FOR IRON CORES.** .125" hex both ends, one end undercut. 5" long. **CTL-091**



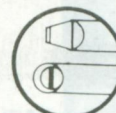
**11" LENGTH FOR ZENITH & ADMIRAL.** .100" hex on both ends with one end undercut. **CTL-616.**



**DRIVER FOR UNSLOTTED TV CORES.** Steel insert one end and thin screw driver blade other end. **CTL-271**



**LONG REACH DRIVER.** 11" long, .125" dia. with driver tip on both ends. Can be re-sharpened. **CTL-728.**



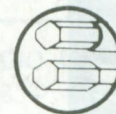
**LONG REACH DUPLEX ALIGNER.** **CTL-276**



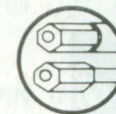
**EXTRA LONG REACH, SLIM.** Same as above, 16" long. **CTL-729.**



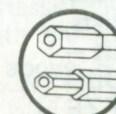
**TV LONG REACH.** Driver tip on both ends, can be re-sharpened. 175" dia. **CTL-294**



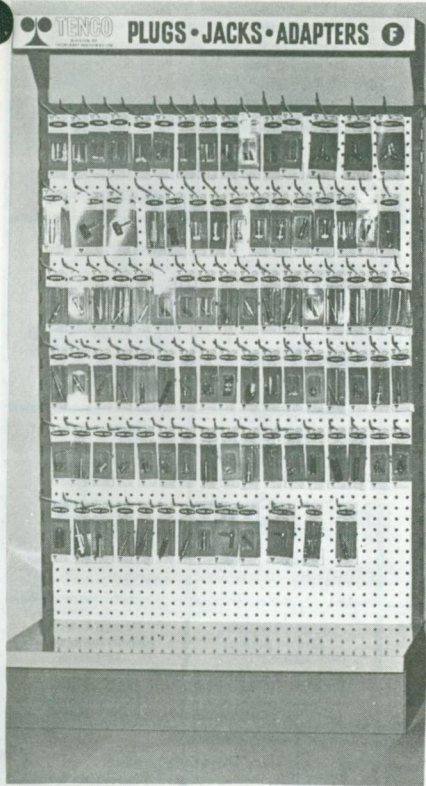
**DERLIN 11" DRIVER.** Iron core tool with knurled handle. .075" hex both ends, one end undercut. **CTL-296**



**FOR COIL SLUGS.** 5" long, .075" hex on both ends with one end undercut. **CTL-300**

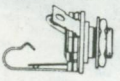






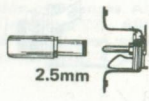


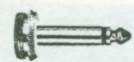
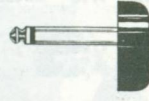
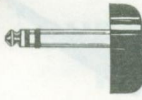


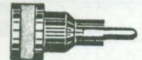


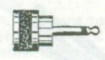




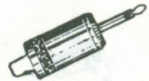









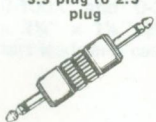






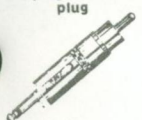





































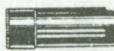













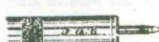
**THREE HEX SIZES FOR COIL SLUGS.** .100" (one end undercut) and .075". 5" long. **CTL-302**



# MARKETING PROGRAM **F**

## Plugs, Jacks & Adapters

<p>Miniature closed circuit jack. 3.5 mm. 1/4" mtg. hole.</p>  <p><b>F2081</b></p>	<p>Midget plug 2.5 mm</p>  <p><b>F2082</b></p>	<p>Sub-miniature closed circuit jack. 2.5mm. 3/16" mtg. hole.</p>  <p><b>F2083</b></p>	<p>Midget plug 3.5 mm</p>  <p><b>F2085</b></p>			
<p>Sub-miniature plug and closed circuit jack. 2.5mm. 3/16" mtg. hole.</p>  <p><b>F2088</b></p>	<p>Midget plug 3.5 mm</p>  <p><b>F2091</b></p>	<p>Shielded midget plug</p>  <p><b>F2092</b></p>	<p>Hollow plug and jack 2.5mm</p>  <p><b>F2093</b></p>			
<p>Hollow plug 2mm (ID)</p>  <p><b>F2094</b></p>	<p>Hollow plug 2.5 mm (ID)</p>  <p><b>F2095</b></p>	<p>Mike to phone plug adaptor</p>  <p><b>F4905</b></p>	<p>Right angle phone plug</p>  <p><b>F4907</b></p>			
<p>Right angle stereo phone plug</p>  <p><b>F4908</b></p>	<p>3 pin DIN plug</p>  <p><b>F4953</b></p>	<p>5 pin DIN plug</p>  <p><b>F4955</b></p>	<p>Std. mike connector to phono plug</p>  <p><b>F4960</b></p>	<p>Mike connector to 3.5 plug</p>  <p><b>F4961</b></p>	<p>Mike connector to 3.5 jack</p>  <p><b>F4962</b></p>	<p>Mike connector to 2.5 plug</p>  <p><b>F4963</b></p>
<p>Mike connector to 2.5 jack</p>  <p><b>F4964</b></p>	<p>Std. phone jack to phono jack</p>  <p><b>F4965</b></p>	<p>Mike connector to std. phone jack</p>  <p><b>F4966</b></p>	<p>Mike connector to phone jack</p>  <p><b>F4967</b></p>	<p>Phono jack to 3.5 plug</p>  <p><b>F4968</b></p>	<p>Inline phone jack to phone jack</p>  <p><b>F4969</b></p>	<p>Adaptor 3.5 jack to 3.5 jack</p>  <p><b>F4970</b></p>
<p>Adaptor 2.5 jack to 2.5 jack</p>  <p><b>F4971</b></p>	<p>Std. phone plug to 2.5 plug</p>  <p><b>F4972</b></p>	<p>2.5 plug to 2.5 plug</p>  <p><b>F4973</b></p>	<p>Std. phone plug to 2.5 jack</p>  <p><b>F4974</b></p>	<p>2.5 jack to 3.5 plug</p>  <p><b>F4975</b></p>	<p>3.5 jack to 2.5 plug</p>  <p><b>F4976</b></p>	<p>Phono plug to 2.5 jack</p>  <p><b>F4977</b></p>
<p>3.5 plug to 2.5 plug</p>  <p><b>F4978</b></p>	<p>2.5 plug to phono jack</p>  <p><b>F4979</b></p>	<p>Quality shielded phone plug</p>  <p><b>F4980</b></p>	<p>Stubby shielded phone plug</p>  <p><b>F4981</b></p>	<p>Phono jack to phono plug</p>  <p><b>F4982</b></p>	<p>Phono plug to phone plug</p>  <p><b>F4983</b></p>	<p>Phono plug to phono plug</p>  <p><b>F4985</b></p>
<p>3.5 plug to phono plug</p>  <p><b>F4986</b></p>	<p>Std. phone plug to std. phone plug</p>  <p><b>F4987</b></p>	<p>3.5 plug to std. phone plug</p>  <p><b>F4988</b></p>	<p>Shielded phono jack to phono jack</p>  <p><b>F4989</b></p>	<p>Phono plug to 3.5 jack</p>  <p><b>F4990</b></p>	<p>Std. phone plug to 3.5 jack</p>  <p><b>F4991</b></p>	<p>Std. phone jack to phono plug</p>  <p><b>F4992</b></p>

<p>Inline plug &amp; jack 3.5mm.</p>  <p>F4993</p>	<p>Inline shielded plug &amp; jack 3.5 mm.</p>  <p>F4994</p>	<p>Phono plug with finger grip</p>  <p>F4995</p>	<p>Dual phone jack</p>  <p>F4997</p>	<p>Kit of 10 coloured phono plugs</p>  <p>F4998</p>	<p>Shielded inline phono jack</p>  <p>F4999</p>	<p>Phono plug</p>  <p>F5000</p>
<p>Phono jack</p>  <p>F5001</p>	<p>One hole mount phono jack</p>  <p>F5002</p>	<p>Shielded phono plug</p>  <p>F5003</p>	<p>Std. mike connector</p>  <p>F5004</p>	<p>Miniature shielded female mike con- nector. 7/16" thread.</p>  <p>F5004A</p>	<p>Sub-miniature shielded female mike connector. 3/8" thread.</p>  <p>F5004B</p>	<p>Standard shielded male mike connec- tor. 5/8" thread.</p>  <p>F5005</p>
<p>Phone jack</p>  <p>F5006</p>	<p>Closed circuit phone jack</p>  <p>F5007</p>	<p>3 cond. phone jack</p>  <p>F5008</p>	<p>Closed circuit 3 cond. phone jack</p>  <p>F5009</p>	<p>Stereo phone jack</p>  <p>F5009A</p>	<p>Long bushing phone jack. Length 1 1/2".</p>  <p>F5013</p>	<p>Mike chassis connector</p>  <p>F5020</p>
<p>MINIATURE CHAS- SIS CONNECTOR. Has 7/16" thread.</p>  <p>F5020A</p>	<p>Mike connector to phone jack</p>  <p>F5022</p>	<p>Closed circuit mike chassis connector.</p>  <p>F5024</p>	<p>Inline phone jack</p>  <p>F5028</p>	<p>Inline slim phone jack</p>  <p>F5029</p>	<p>Inline shielded phone jack stereo</p>  <p>F5029A</p>	<p>Phono jack to phono jack, plas- tic barrel</p>  <p>F5030</p>
<p>Barrel phone plug</p>  <p>F5039A</p>	<p>Barrel inline phone jack</p>  <p>F5039B</p>	<p>Heavy duty shield- ed phone plug</p>  <p>F5039C</p>	<p>Heavy duty shield- ed phone jack</p>  <p>F5039D</p>	<p>Phono jack to phone plug</p>  <p>F5040</p>	<p>Red-phone plug</p>  <p>F5041R</p>	<p>Black-phone plug</p>  <p>F5041B</p>
<p>Shielded phone plug</p>  <p>F5042</p>	<p>Shielded inline phone jack</p>  <p>F5042A</p>	<p>Auto antenna jack.</p>  <p>F5046</p>	<p>Auto antenna plug</p>  <p>F5047</p>	<p>3 conductor stereo phone plug</p>  <p>F5058</p>	<p>Shielded 3 con- ductor phone plug</p>  <p>F5058A</p>	
<p><b>LATE ADDITIONS</b> →</p>		<p>F-4957 2 pin chassis mt. DIN jack</p> 	<p>F-4958. 2 pin male DIN plug</p> 	<p>F-5010 Std. phone jack to 3.5mm min. plug</p> 		

**NOTE: All products in this catalogue are available in bulk pack. Ask your Tenco distributor for quantity prices.**



# MARKETING PROGRAM **J** Hobby & Experimenter

## Transistorized DC Power Supply



J-601

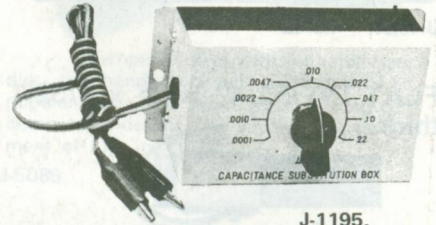
- Recharger • Bias Supply
- AVC-AGC Voltage
- DC Filament Supply

Wide range variable voltage supply with low AC ripple and high stability factor. Ideal for transistor radios, hearing aids, amplifiers or other apparatus. Special heat-dissipation devices throughout for cool operation under maximum load. Rugged isolation-type line transformer, replaceable fuse, wide-view meter and neon pilot light. Individually boxed with complete instructions and test leads.

### SPECIFICATIONS

**Voltage Range:** 0-20 DC Variable  
**Meter Ranges:** 0-20 V DC  
 0-20 DC MA  
 0-200 DC MA  
**Max. Load:** 0-10 V-200 MA  
 0-20 V-150 MA  
**A.C. Ripple:** Less than .025 MV RMS  
**Power Input:** 110-120 V AC 50-60 cps

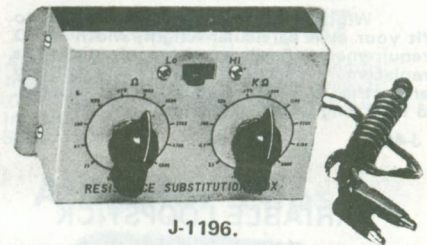
## Capacitance Substitution Box



J-1195.

Fast capacitor substitution from .0001 to .22 mfd with rotary switch selection of 9 ranges. All ranges are rated at 600 working volts DC. Alligator clips on 36" red and black test leads allow quick clipping into circuit. Size: 4 3/4" x 2 5/8" deep x 1 1/4" high.

## Resistance Substitution Box



J-1196.

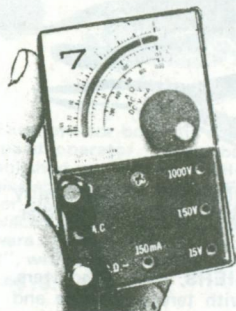
Precision resistor substitution from 15 ohms to 10 meg-ohms in two ranges, 15 ohms to 10K ohms and 10K ohms to 10 meg-ohms. Convenient red and black alligator clip test leads are 36" long. Ranges are clearly marked and easy to select with positive rotary switching. Size: 4 3/4" wide x 2 5/8" deep x 1 1/2" high.

## GERMANIUM DIODE



Replaces IN34, IN60, IN64 and many others.  
**J-1NA4-G.**

## SUPER MIDGET Kewpet-7

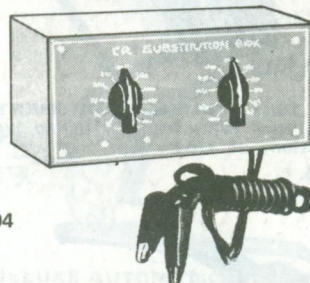


**1000 OHMS PER VOLT AC & DC.**

J-Kewpet-7

Thin, light and tiny, but packed with BIG features. 90 degree mirrored scale, test leads with turn around plugs, printed circuitry. DC voltage: 0-15/150/1000; AC Voltage: 0-15/150/1000; DC Current; 0-15mA; Ohms: 0-100K and 0-2.5K midscale. Size: 3 3/4" x 2 1/4" x 1 1/4". Weight prox. 4 oz. Batteries, test leads and case included.

## NEW! Combined Resistance/Capacitance Substitution Box



J-1194

Versatile service instrument...enables rapid substitution of a wide range of values. Resistance values in two ranges (12 steps each). Low: 15 ohms to 10K ohms; High: 15K ohms to 10 Megohms. Capacitance ranges are: .0001; .0010; .0022; .0047; .010; .022; .047; .10; .22 MFD (rated at 400 volt working capacity). Size: 5 1/8" x 2 3/4" x 1 3/4". Shpg. wt., 1 lb.



## PENCIL STYLE Soldering Iron

**VENTILATED 30 WATTS**, use continuously without burning hands. Special heat resistant ventilated handle. 117vac, 4 ft. cord.

J-1252.

Replacement tips for above:

J-1252-T.

### FERRITE ANTENNA COILS

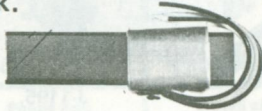
Exact replacement for most transistor radios. All models listed below have 480mh coils and hi-Q ferrite bars. Designed to match 8-170mmfd tuning condenser, tuning range 535-1605KHz. Coils slide to centre to increase inductance.

**ROUND TYPE** with flattened side. 5/16" diameter.



J-4604. 4 3/4" L.

**FLAT TYPE**-3/4" wide x 5/32" thick.



J-4608. 4 3/4" L.

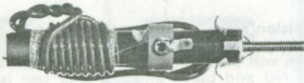
### FERRITE ANTENNA CORE



Wind your own ferrite rod antenna—to fit your own particular length, width and Q requirements. Easily cut to required size. As replacement part, this rod fits several Sony and other transistor radios. Vinyl covered. 6 1/4" long x 3/8" diameter.

J-4605.

### VARIABLE LOOPSTICK



Vari-loopstick for all miniature radios. Powerful high Q type tapped for transistor circuits. Tunes with 365 mmfd condenser. Circuit diagram and instructions included. Size 7/16" dia. x 2" long.

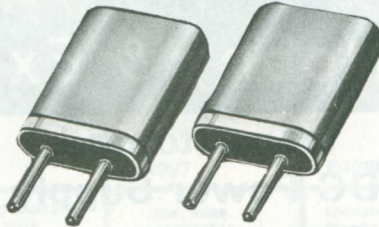
J-4610.



**ECONOMY HEADSET.** All the features of professional phones, but at a remarkably low price. 4,000 ohms resistance (2K ohms per phone), adjustable steel spring headband, full length cord with standard phone tips, two-tone plastic cases.

J-4632.

### TRANSMIT & RECEIVE PLUG-IN CRYSTALS

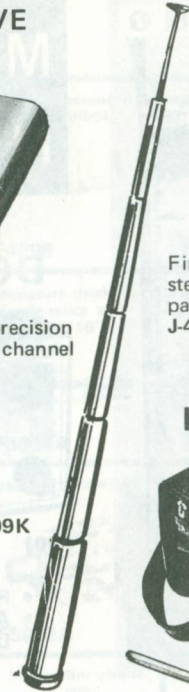


Extremely accurate matched sets of precision crystals for 27 meter band. Specify channel 7, 9, 11 or 12 when ordering.

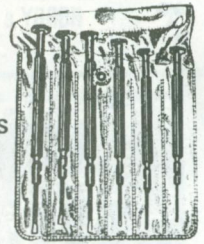
J-4689.

**DELUXE ANTENNA.** For walkie talkies or replacement on FM and short-wave radios. 11 sections extend to 54"; with adaptors to fit 6-32 and 8-32 threads or fastens with 6-32 screw.

J-4699K



**6 PIECE JEWELLER'S TOOL KIT**



Finely crafted drivers of tempered steel with free-turning barrel. In transparent vinyl case.

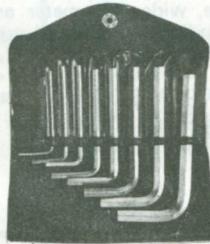
J-4735.

### HOLE PUNCH SET



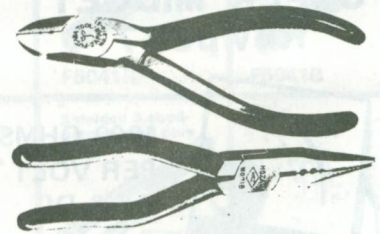
In durable carrying case. Set includes five Top grade steel punches and a T handle reamer. Punch sizes: 5/8, 11/16, 3/4, 1, 1 3/32 inches. Reamer tapers from 1/2" to 1/8".

J-4750.



**ALLEN WRENCH SET.** 18 piece set from smallest to largest size. Complete with durable vinyl carrying case.

J-4722.



**4" DIAGONAL SIDECUTTERS.** Quality drop-forged steel with insul-grip handles.

J-4759.

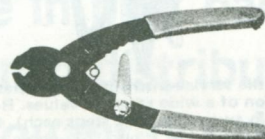
**4" LONGNOSE PLIERS,** with sidecutters. Drop-forged steel with tempered nose and cutting edges. Precision ground for close tolerance. Insul-grip handles.

J-4762.



**TWIST DRILL ASSORTMENT.** 13 carbon steel drills from 1/16" to 1/4" in graduations of 1/64".

J-4726.

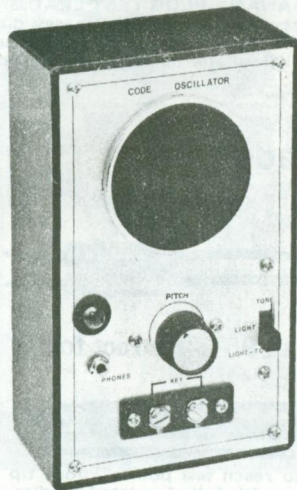


**WIRE STRIPPER.** Cuts or strips at any point. Tempered steel, insulated handles. Pawl lock for wire sizes 12 through 22.

J-4742.



# Code Practice Oscillator



The most advanced code oscillator ever produced . . . has all the features most wanted by amateurs, scouts, and other code groups. A hand-size unit containing a battery operated audio oscillator tunable from 500 to 2,000 cps built-in 3" PM speaker, and a flashing panel light which may be used for night signaling. A front panel switch permits selection of tone alone, light alone, or both at the same time. Variable pitch control. Case measures 2" x 3 5/8" x 6 1/8" high. Powered by two 1 1/2V "C" cell batteries.

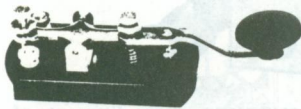
J-4811.



**DELUXE BRASS TELEGRAPH KEY**

Excellent for both the amateur and high-speed operator. Heavy base of brightly polished solid brass. Ball-bearing pivots give the key fast action. Fully adjustable for the right "feel". Standard 1-1/8" black knob, 3/16" contacts, knurled hardware. Circuit closing switch. Base 3" x 2", with 2 mounting holes.

J-4813.

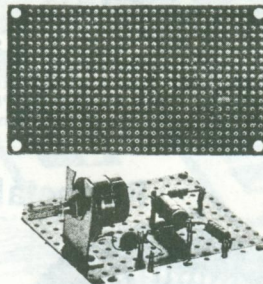


**ECONOMY TELEGRAPH KEY**

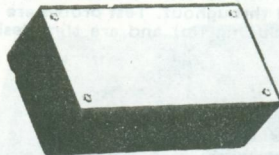
Well-made key at a low price. Black bakelite base, 3-1/4" x 1-3/4". All metal parts are nickel-plated. 5" key bar with 1-1/8" black knob. Adjustable arm travel and tension. Heavy 1/8" contacts.

J-4814.

# Perforated Circuit Board



**CIRCUIT BOARD KIT.** 5 pieces, includes 3 phenolic boards as illustrated, plus one plastic and one aluminum base plate. Each piece measures 3 1/2" x 6" and is designed to fit our 4946 utility box (below). Perfect for breadboards, prototypes and hobby projects. J-4945.



**UTILITY BOX.** Sturdy, compact black plastic box with aluminum top. Especially suitable for transistorized receivers, code oscillators, decade boxes, frequency devices, meters, and many other applications. Aluminum panel removes for easy access to components. Size 6 1/4" L x 3 3/4" W x 2" deep. J-4946.

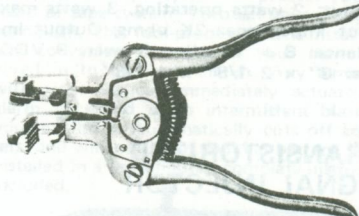


## INSULATED TIP PLUG.

Solderless, 2 3/16" long. 2 per pkg., 1 red, 1 black.

J-5043.

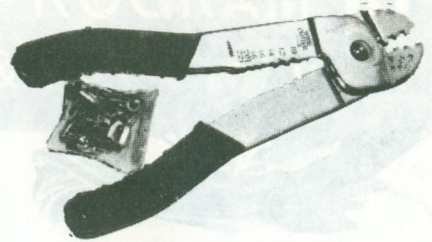
**INSULATED BANANA PLUG.** Solderless, 2" long. 2 per pkg., 1 red, 1 black. J-5048.



**DELUXE AUTOMATIC WIRE STRIPPER.** 7 1/2" in length, takes all sizes from thinnest single strand to wire with outside insulation diameter up to 5/16" (max. bare wire diameter 1/8"). Tempered and ground removable cutting jaws, spring-back insulated handles. Includes special "stop" attachment for production stripping. Quantities of wire can be stripped identically to any pre-set length up to 1".

J-5080.

# CRIMP/STRIP TOOL



Tempered steel with insulated handles, this handy tool will cut and strip all popular wires sizes from 10 to 22, and will crimp on solderless lugs. 7 1/2" length, assortment of lugs included.

J-5085.



# SPAGHETTI KIT

Assorted colours in THIRTY 6" lengths. Inside diameters range from fine gauge to 1/8". Plastic with laquer coat for high insulation value.

J-5090.

# Alligator Clips

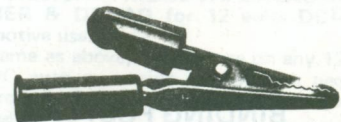


**INSULATED ALLIGATOR CLIPS.** Large type, 2 1/2" long x 5/8" dia. with vinyl covering 4 per package, 2 red 2 black. J-5114.

**INSULATED ALLIGATOR CLIPS.** Same type as above, but miniature size 1 1/2" long. 4 per pkg., 2 red 2 black. J-5110.



**UNIVERSAL TYPE,** all metal, for solder, screw or banana plug. 2" long, 4 per pkg. J-5113



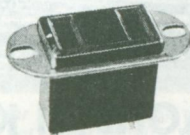
**INSULATED ALLIGATOR CLIPS** with wide spring jaws. 4 per pkg., 2 red 2 black. J-5115

## Alligator Jumper Kits



**LARGE SIZE**, 10 colour coded leads each 22" long with insulated clip on both ends. Length of alligator clip: 1 1/4". Two each Red, Green, Black, Yellow, White. J-5118. Kit of 10.

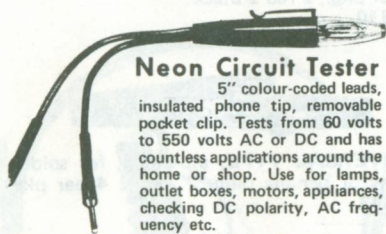
**MINIATURE JUMPER KIT**. 10 colour coded leads each 15" long with 1 1/2" clip on both ends. Two each Red, Green, Black, Yellow, White. J-5119. Kit of 10



**A.C. RECEPTACLE**. Flush mounting type, sure-contact moulded socket with metal mounting flange. 1 1/8 mounting centres. J-5138.



**BATTERY SNAP**. Standard 9-volt or miniature 45-volt battery connectors with 1/2" spacing between male and female snaps. Durable plastic construction resists hard pulls. Complete with 3" leads, 2 per pkg. J-5194.



J-5253

### Neon Circuit Tester

5" colour-coded leads, insulated phone tip, removable pocket clip. Tests from 60 volts to 550 volts AC or DC and has countless applications around the home or shop. Use for lamps, outlet boxes, motors, appliances, checking DC polarity, AC frequency etc.

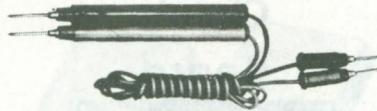
## BINDING POST



Five-way heavy duty binding post. Molded plastic head with brass inserts; machined brass body; accepts banana or tip plug, spade lug, alligator clip or bare wire. 9/16" dia. x 1 1/4" long (open) —. Two per pkg.— 1 red, one black. J-5294.

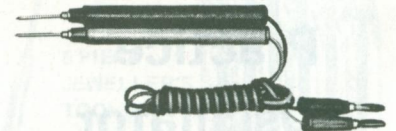
10

## TOP QUALITY TEST LEAD SETS



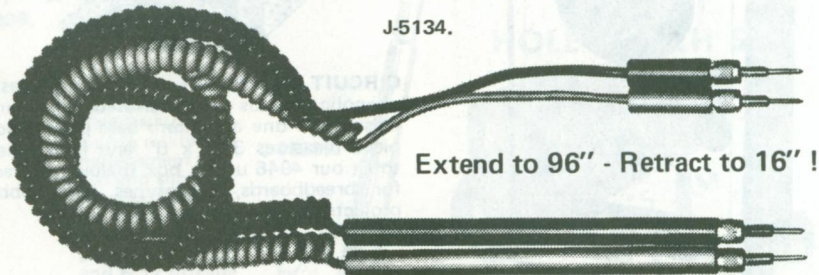
**PHONE TIP TEST LEAD SET**. High quality general replacement set, 36" length each lead. Heavy duty Tenco solderless probes, red and black. Phone tip meter plugs: fully insulated handles.

J-5132.



**BANANA-PLUG TEST LEAD SET** 40" test leads with Tenco heavy duty solderless probes. Banana tip meter plugs with fully insulated handles. Red & black. J-5133.

## Retractable Test Leads



J-5134.

Extend to 96" - Retract to 16" !

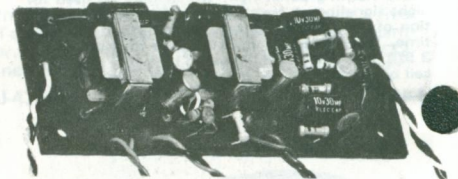
An extremely versatile test lead set, fully insulated throughout. Test probes are 6" long (including tip) and are slim design

for hard to reach test points. Phone tip meter plugs with fully insulated handles. One lead is red, the other black. Packaged in pairs.



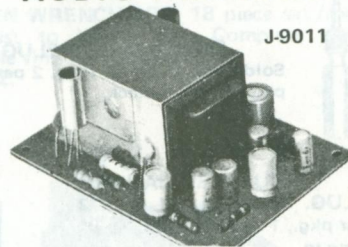
## SMALL SCREW ASSORTMENT

210 pieces. Assorted popular small screw hardware used in radio and T.V. J-5319.



**SUBMINIATURE AUDIO AMPLIFIER**. 4 transistor push pull circuitry, great for experimenters and builders. Completely wired, can be mounted inside other equipment as a phono amplifier, tape recorder amp. etc. 100MW output, operates on regular 9v battery. Dimensions 3" x 1" x 3/4". J-9018

## PUSH-PULL AUDIO AMPLIFIER



J-9011

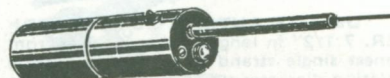
An excellent general purpose amplifier with a broad range of audio applications. **Specifications:** 4 transistors; Output: 2 watts operating, 3 watts max; Input impedance: 2K ohms; Output impedance: 8 or 16 ohms; Power: 9 VDC. Size: 3" x 2 1/8" x 1 1/8"



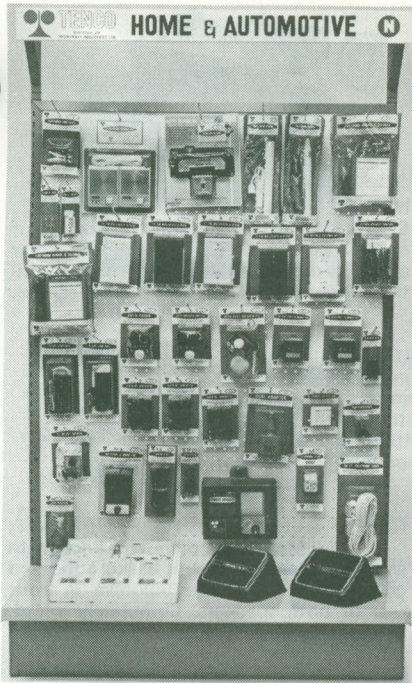
J-9040

**FILAMENT CHECKER**. Tests filaments of radio and TV picture tubes including octal, local, 7 & pin. Can also be used as continuity checker for electrical appliances. Grey hammertone finish, size 4" x 3" x 1 1/2", 117vac, shipping wt. 12 oz. Includes pair of test leads.

## TRANSISTORIZED SIGNAL INJECTOR



Produces audio signal rich in harmonics, suitable for signal tracing in AF, IF, and RF circuits. Miniature transistorized oscillator is built in. Operates on 4 penlite cells. Built-in battery strength indicator. 4 3/4" x 1 3/16" x 1 1/4". Incl. batteries. J-9035



# MARKETING PROGRAM **N**

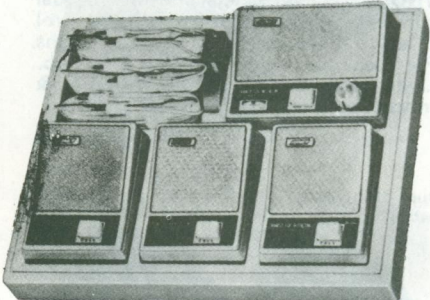
## Home, Office & Automotive

Create concert hall listening in your car

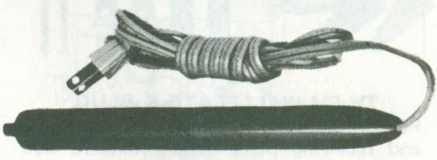


**N883. DELUXE SOLID STATE REVERBERATION SYSTEM.**  
 Create dramatic sound from your car or stereo tape deck with this reverb system. Provides an exciting new dimension in sound by producing a second set of sound waves through the rear speakers in your car. Works equally well in boat or truck! Silicon transistors throughout, 12 volt negative ground. Includes all hardware, wire & instructions, less speakers.

**N1230. TWO STATION INTERCOM**  
 A great time saver in homes and offices. Instant communication between any two locations. Also ideal for "baby sitting" too. Remote station can signal even if switch on master is off. Connects in minutes by plugging cable (65 ft. included) into each unit. Battery included.



**N1236. FOUR STATION INTERCOM.**  
 Distinctively styled master with 3 remotes. 2-tone ivory with gold grills. Features special transistorized circuitry which permits signals to be sent even if master is in off position. Master has on-off switch, position switch, volume control, and press-to-talk-button. Master measures 4 3/4" x 3 1/2", remotes: 3 1/2" x 3" x 1 1/4" x 4". Complete with 196' cord and 9 volt battery.

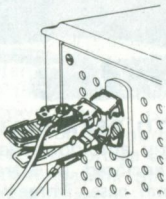


**N2024. SLIMLINE TAPE HEAD DEMAG.**  
 Latest design. Long slim barrel gives access to tape heads in any location and is especially useful for 8-track cartridge players. Barrel is 1" dia. x 8" long. 6 ft. cord, 117vac operation.

**N2025 SLIMLINE TAPE HEAD DEMAG FOR AUTOMOTIVE USE.**  
 Same as above, but operates on 12 volts DC and plugs into the cigarette lighter of your car, boat or truck. Specially designed for 8-track cartridge systems. Complete with 6 ft. cord. Unit stores in glove compartment when not in use.

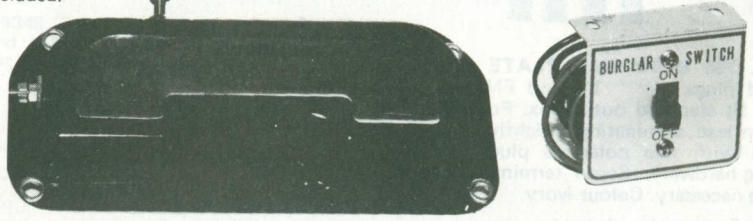


**N2027. CARTRIDGE TAPE HEAD CLEANER & DEMAG for 117 vac operation.**  
 The playback heads in every stereo cartridge system should be cleaned and demagnetized every 20-30 hours for optimum performance. This unit does both these jobs instantly, simply by plugging into your cartridge system. Incorporating an endless loop of special tape for cleaning, and transistorized circuitry for demagnetizing, this is the only accessory you need to handle these two important functions. Designed specifically for 8-track stereo cartridge systems.

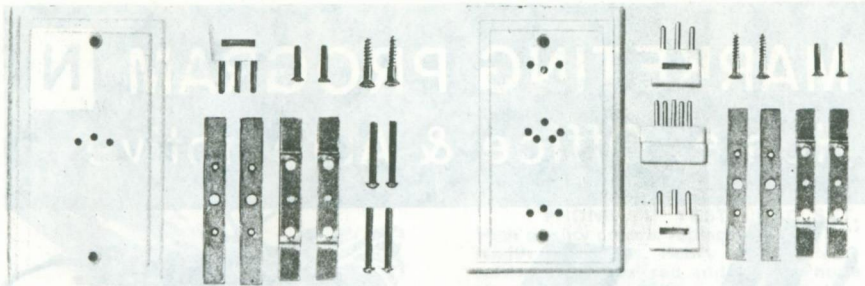


**N1015. TV ANTENNA CLIPS**  
 Strong plated springs with screw terminals and coloured plastic handles. Quick way to connect or disconnect antenna lead-in wires to TV set, FM radio etc.

**N1911. AUTO BURGLAR ALARM**  
 Protect valuables in your car — protect your car radio or tape system — protect your car against vandalism. This fool-proof device is installed in any convenient location in your car and is wired in to the horn circuit. Any tampering with your vehicle immediately actuates the alarm to sound sharp intermittent blasts on your car horn. Automatically cuts off and resets, and will not harm your car battery. Easily installed in a few minutes, complete instruction included.



**N2026. CARTRIDGE TAPE HEAD CLEANER & DEMAG for 12 volts DC automotive use.**  
 Same as above, but for use on any 12 volt DC auto or marine system with negative ground. 6 ft. cord, plugs into cigarette lighter.

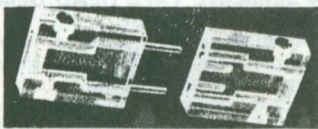


**TV-FM WALLPLATE & PLUG**

For use with either TV or FM. Both plug and receiving plate match standard 300 ohm twin-lead. Fits on standard outlet box or can be mounted without box. Individually packed with hardware and instruction. Colour ivory.

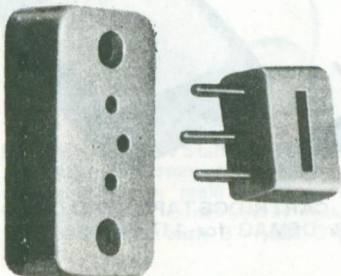
N-2063-I

N-2063-B, Same, colour brown.



**N2064. UNIVERSAL LINE PLUG & SOCKET.**

Constant impedance set of plug and jack for 300 ohm TV or FM lines. Carefully formed of clear lucite with chromed metal parts. Each separate unit measures only 1" x 7/8"



**N2066. SURFACE MOUNT PLUG & SOCKET.**

2-conductor molded wall socket for 300 ohm leads - Television or FM. With clear lucite mating jack - Designed to provide a convenient wall source and eliminate unsightly wires.

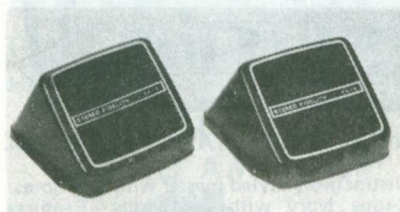
**N2069. ANTENNA ROTOR AND TWIN LEAD OUTLET.**

Has outlet for 4-wire rotor leads plus two twin lead outlets. Comes with 4-prong plug, two 3-prong plugs and all mounting hardware. Mounts on dry wall or box.



**N2071. STEREO AUTO SPEAKER CONTROL**

Stacked control with dual concentric knobs gives complete control of up to 4 speakers in auto stereo systems. Pre-assembled and ready for hook-up. Under dash mounting with hardware & instructions included.

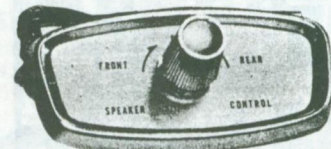


**REAR DECK STEREO SPEAKERS.** Smart new speaker design for all auto stereo applications. Sturdy black plastic enclosures with simulated leather design and chrome trim. 5" speakers with ceramic magnets, 8 ohms at 5 watts each. Hook up wire included.

N-3555

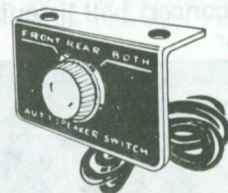


**N2074. AUTO SPEAKER FADER KIT.** Completely wired with instructions. For controlling volume between front and rear speakers or both. Kit includes wired control, mounting plate, knob and screws.



**N2075. DELUXE AUTO FADER KIT.**

All-Metal face plate and knob with smart brushed aluminum background and chrome trim. Controls volume in front, rear or both speakers. Completely wired, includes extension wires and instructions.

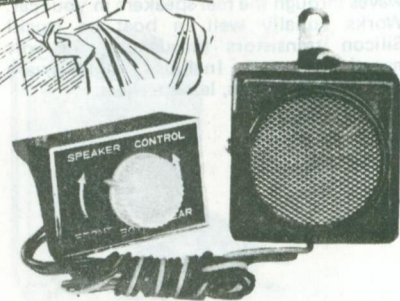


**N2076. 3-WAY SWITCH KIT.**

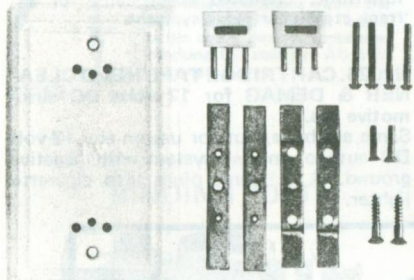
Completely wired with instructions. For switching between dual speakers (front and rear). Kit includes wired switch, mounting plate, knob and screws.



Prewired -  
Installed in  
Seconds



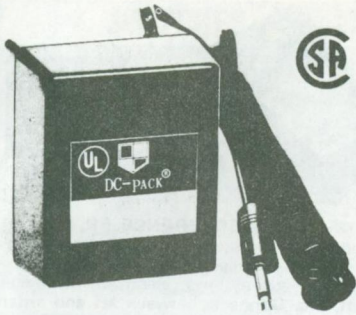
**N2079. AUTO REAR SEAT SPEAKER KIT.** Fits any auto-domestic or foreign. Speaker is enclosed in attractive shock resistant metal case. Three-way selection switch gives choice or front-back-both. Includes all necessary instructions, wire and hardware.



**N2068-I. FM & TV WALLPLATE** with polarized plugs. TV and FM wall plate to fit standard outlet box. For 300 ohm twin lead, eliminating unsightly wires. Supplied with two polarized plugs and mounting hardware. Screw terminals. No soldering necessary. Colour ivory.

N-2068B. Same, colour brown.

**NOTE: Part numbers N2072 & N2072A appear on "N" stand. See page 2 of this catalogue.**

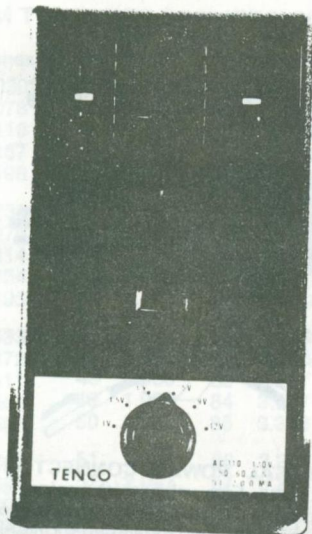


**SOLID STATE BATTERY ELIMINATORS.**  
Designed for use with any type of transistorized equipment drawing up to 300ma. Operates on 117vac, plugs directly into wall and has 6 ft. extension cord with 3.5mm miniature plug. Also includes our N4850 adapter.

- N4320                    6VDC/300ma output  
N4322                    9VDC/300ma output  
N4326                    7.5VDC/300ma output

## WIDE RANGE Battery Eliminator

A flip of the switch gives 3V - 4.5V - 6V - 9V - 12V at 200ma in all ranges!

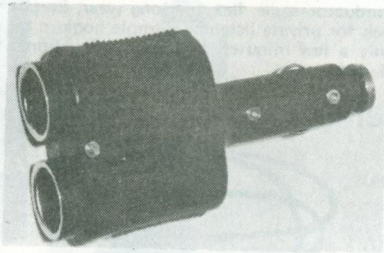


6 position rotary switch gives instant voltage selection. At the back of the unit there is an on/off power switch, plus a polarity reversing switch for DC output. Complete with line cord, DC voltage extension cord, 4-way plug combination. Smart black impact plastic case. Size: 2½" x 4½" x 1¼" deep, - weight 12 oz. Includes our N4850 adapter.  
N4325.

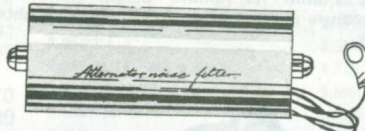


**AUTO DC VOLTAGE CONVERTERS.**  
Now you can operate all your portable transistor equipment directly from the battery of your car with one of these TENCO converters. DC output current for all models is rated at a safe 300ma. Plugs directly into lighter receptacle and includes our N4850 adapter.

- N4333. 12VDC input to 9VDC output.  
N4334. 12VDC input to 7.5VDC output  
N4335. 12VDC input to 9VDC output



**N4337. DUAL ADAPTER.**  
Heavy duty twin adapter, plugs into auto lighter receptacle and gives dual outputs. Strong, plate contacts, 6 to 12V. operation.



**N4344. ALTERNATOR NOISE FILTER**  
Efficient interference filter for auto or marine applications where engine uses an alternator instead of a generator. 3"L x 1"D with heavy protective covering. Complete hook-up instructions included.

### IGNITION NOISE SUPPRESSORS

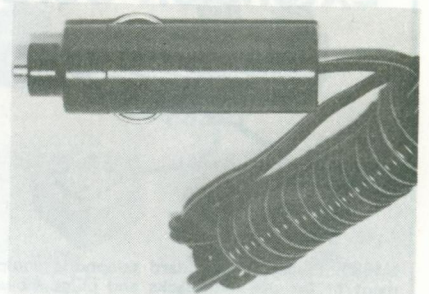


- N4345. Inline type, screws into ends of spark plug cable.  
N4346. Right angle type. One end screws into cable, other end snaps on plug  
N4348. .5 mfd. condenser, mounts on generator and helps to eliminate ignition interference. Fit all cars & boats, 6 or 12 volts.

### PRIVATE SOUND FOR SILENT TV VIEWING



**N4820. RADIO/TV PRIVATE LISTENER**  
Listen to TV or radio without disturbing others. Attaches to any set. The small control unit has jacks for 2 earphones & a volume control to adjust the sound volume. Also has a switch to turn off speaker in TV or radio. Complete with one earphone & 15 ft. connecting cable.



**N4822. AUTO CIGARETTE LIGHTER PLUG.**  
Plugs into any auto cigarette lighter socket and has 6 ft. extension cord. For 6 or 12 volt operation.



**N4825. TV BLABOFF.**  
Switch off TV sound from across the room - pictures stays on! Tune out commercials - turn off the sound for conversation & phone calls. Easy to hook up. 15 ft. cable included.

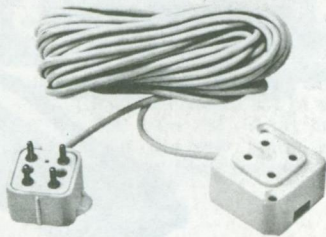
# ACCESSORIES TO MAKE ANY TELEPHONE PORTABLE!



Move Your Phone  
**ANYWHERE!**

ROOM TO  
ROOM  
OUTDOORS  
HOME OR  
OFFICE

## 30ft. Telephone Extension Cord



**N4939.** Plugs into standard telephone equipment or for use with jacks and plugs shown below. Colour-coded cable is 30 feet long and completely assembled with telephone jack on other. Makes any phone more versatile.

### 4 PRONG PHONE PLUG



Fits all single and 2-line phones. Easy to attach to cord with screw terminal. No soldering

**N4936.** 4-PRONG PHONE PLUG

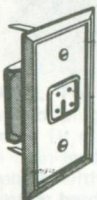
### 4 PRONG PHONE JACK



This outlet mounts to the wall with 2 wood screws which are included. Screw type terminals.

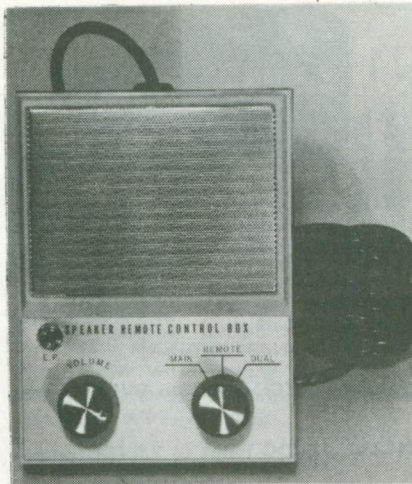
**N4937.** 4-PRONG PHONE JACK

### TELEPHONE WALL OUTLET



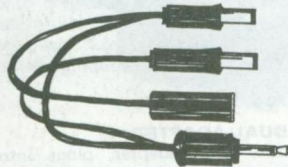
Same as telephone jack listed above, but mounts in regular electrical outlet box. May also be flush mounted to wall without box, using special brackets supplied.

**N4938.** TELEPHONE WALL OUTLET



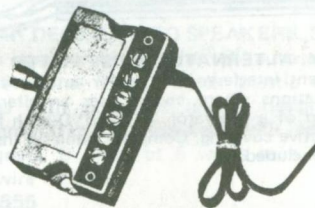
### N4826. REMOTE SPEAKER

Remote speaker and control for TV, auto or home radio. Smart brushed aluminum panel and metal speaker grill. Controls either/both speakers from any remote location up to 20 feet away. Rubber covered extension cable, 3 conductor super flex for long wear. Earphone jack for private listening. Simple hookup takes only a few minutes, complete instructions included.



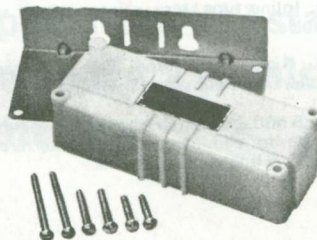
### N4850. UNIVERSAL 4-WAY ADAPTER.

For use with just about all home & auto transistorized equipment on the market. Has 2mm and 2.5mm ID hollow plugs, 2.5mm sub-miniature phone plug and 3.5mm inline phone jack.



### N5228. 3-WAY ANTENNA SWITCH.

Attaches to back of TV or any other convenient location. Gives instant 3 way switching: Indoor Antenna - Outdoor Antenna CTV, or any similar combination.



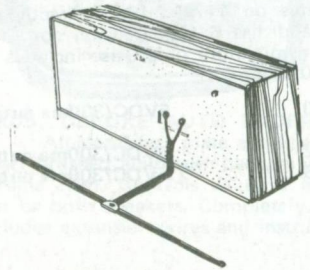
### N9023. TWO SET TV/FM COUPLER.

Twin lead channels are totally isolated giving absolute minimum loss. Constant 300ohm impedance



### N9025. TV INTERFERENCE FILTER.

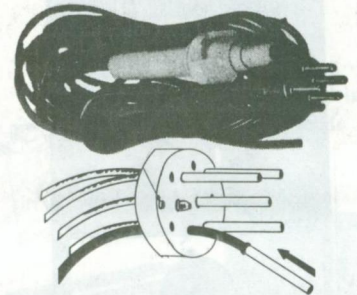
Band-pass type for the elimination or reduction of interference caused by airplanes, CB and amateur, automobiles, electro-medical equipment, etc. Connects between set and antenna lead-in wire.



### N10020. INDOOR FM RADIO ANTENNA.

Folded dipole type, vastly improves your FM and multiplex-stereo reception. Superior to built-in antenna. Just connect to terminals on your radio and locate antenna behind set along baseboard or under carpet. Installs in a few minutes.

## NEW PRODUCTS



**UNIVERSAL POWER CONNECTOR** for car stereo. Five pins with colour-coded leads can be fitted into plug in any combination. Complete with standard spring-loaded fuse holder and instruction sheet.  
**N-4823.**



# MARKETING PROGRAM P

## Switches, Panel Lamps & Knobs

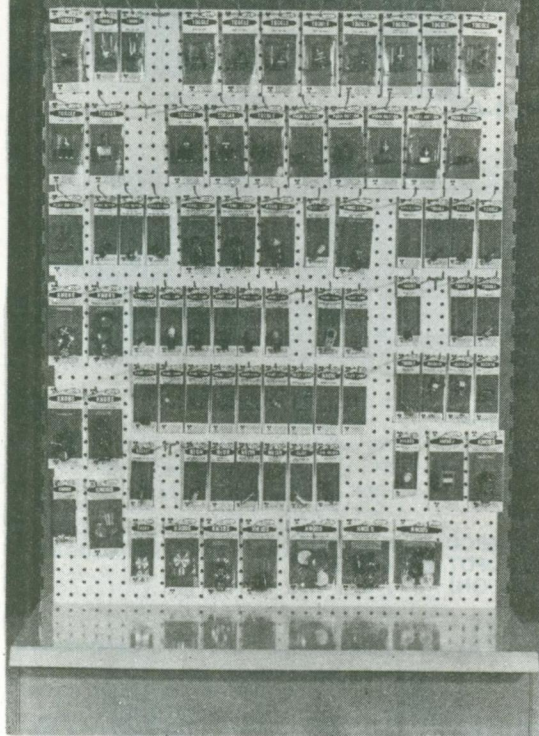
### GUIDE TO NUMBERS FOR SPECIFICATIONS SWITCHES

1. Rating
2. Type
3. Circuit
4. Contact resistance
5. Insulation resistance
6. Voltage Breakdown
7. Mtg. hole diameter
8. Colour, if applicable.

### PILOT LAMPS

1. INSULATION RESISTANCE
2. VOLTAGE BREAKDOWN
3. MTG. HOLE SIZE (DIA.)
4. COLOUR
5. BASE

NOTE: Dimensions for all products in this section are METRIC. Please see conversion chart on this page.



## TOGGLE SWITCHES



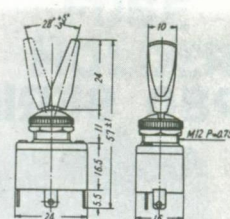
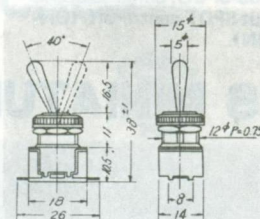
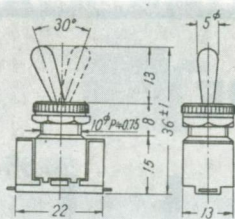
P9-2P



P15-2P



P32-2P



- 1.3A. 125V. AC.
- 2.2P (SPST)
- 3.ON-OFF
- 4.2.5V. DC. 1A. 20mΩ or less
- 5.500V. DC. 100MΩ or more
- 6.1000V. AC. 1min
- 7.10φ

- 1.6A. 125V. AC.
- 2.2P (SPST)
- 3.ON-OFF
- 4.2.5V. 1A. 10mΩ or less
- 5.500V. DC. 100MΩ or more
- 6.1500V. AC. 1min
- 7.12φ

- 1.6A. 250V. AC.
2. SPST
3. ON-OFF
- 4.2.5V. DC. 1A. 20mΩ or less
- 5.500V. DC. 100MΩ or more
- 6.1500V. AC. 1min
- 7.12φ
- 8.Red/Black/Silver

P32-3P. Same as above but SPDT (ON-ON)

P32-6P. Same as above but DPDT (ON-ON).

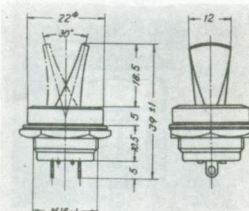
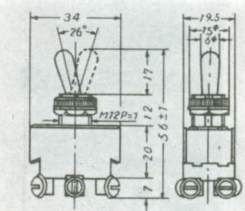
P32-6PCO. Same as above but DPDT centre off (ON-OFF-ON).



P28-6P



P34-2P



- 1.15A. 125V. 10A. 250V. AC.
- 2.6P (DPDT)
- 3.ON-ON
- 4.2.5V. DC. 1A. 20mΩ or less
- 5.500V. DC. 100MΩ or more
- 6.1500V. AC. 1min.
- 7.12φ

- 1.3A. 250V. AC.
2. SPST
3. ON-OFF
- 4.2.5V. DC. 1A. 20mΩ or less
- 5.500V. DC. 100MΩ or more
- 6.1500V. AC. 1min
- 7.18φ
- 8.Red/Black

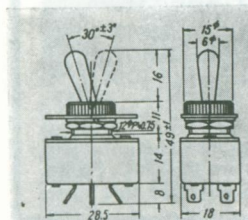
### MM TO INCHES CONVERSION CHART

mm	Inches	mm	Inches	mm	Inches	mm	Inches
1	.039	36	1.417	71	2.795	106	4.173
2	.078	37	1.456	72	2.834	107	4.212
3	.118	38	1.496	73	2.874	108	4.251
4	.157	39	1.535	74	2.913	109	4.291
5	.196	40	1.574	75	2.952	110	4.330
6	.236	41	1.614	76	2.992	111	4.370
7	.275	42	1.653	77	3.031	112	4.409
8	.314	43	1.692	78	3.070	113	4.448
9	.354	44	1.732	79	3.110	114	4.488
10	.393	45	1.771	80	3.149	115	4.527
11	.433	46	1.811	81	3.188	116	4.566
12	.472	47	1.850	82	3.228	117	4.606
13	.511	48	1.889	83	3.267	118	4.645
14	.551	49	1.929	84	3.307	119	4.685
15	.590	50	1.968	85	3.346	120	4.724
16	.629	51	2.007	86	3.385	121	4.763
17	.668	52	2.047	87	3.424	122	4.803
18	.708	53	2.086	88	3.464	123	4.842
19	.748	54	2.125	89	3.503	124	4.881
20	.787	55	2.165	90	3.543	125	4.921
21	.826	56	2.204	91	3.582	126	4.960
22	.866	57	2.244	92	3.622	127	5.000
23	.905	58	2.283	93	3.661	128	5.039
24	.944	59	2.322	94	3.700	129	5.078
25	.984	60	2.362	95	3.740	130	5.118
26	1.023	61	2.401	96	3.779	131	5.157
27	1.062	62	2.440	97	3.818	132	5.196
28	1.102	63	2.480	98	3.858	133	5.236
29	1.141	64	2.519	99	3.897	134	5.275
30	1.181	65	2.559	100	3.937	135	5.314
31	1.220	66	2.598	101	3.976	136	5.354
32	1.259	67	2.637	102	4.015	137	5.393
33	1.299	68	2.677	103	4.055	138	5.433
34	1.338	69	2.716	104	4.094	139	5.472
35	1.377	70	2.755	105	4.133	140	5.511

# TOGGLE SWITCHES



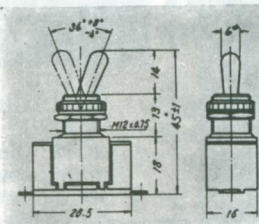
**P55-6P.**



1. 10A. 125V. AC.
2. DPDT
3. ON-ON
4. 2.5V. DC. 1A. 20mΩ or less
5. 500V. DC. 100MΩ or more
6. 1000V. AC. 1min
7. 12φ



**P69-2P.**



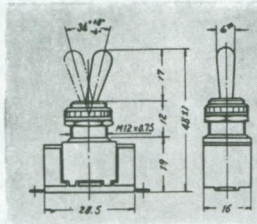
1. 6A. 250V. AC.
2. SPST
3. ON-OFF
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ

**P69-3P.** Same as above but SPDT (ON-OFF).

**P69-3PCO.** Same as above but SPDT centre off. (ON-ON).

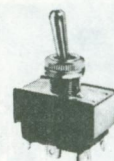


**P70-2P.**

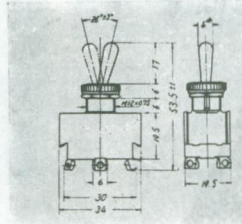


1. 10A. 250V. AC.
2. SPST
3. ON-OFF
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ

**P70-3P.** Same as above but SPDT (ON-ON).



**P71-4P**

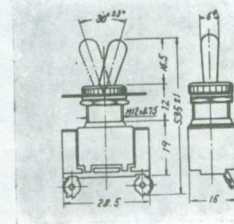


1. 6A. 250V. AC.
2. DPST
3. ON-OFF
4. 2.5V. DC. 1A. 20mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ

**P71-6PCO.** Same as above but DPDT centre off (ON-OFF-ON)

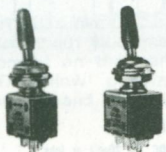
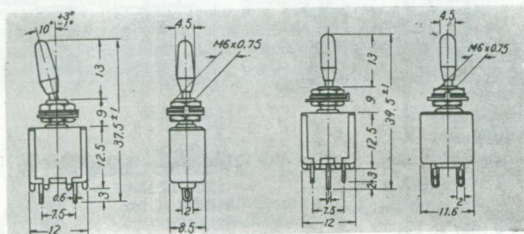


**P105-2P**



1. 15A. 250V. AC.
2. 2P(SPST)
3. ON-OFF
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ

## P80 SERIES MINIATURE



**P80-2P**

1. 6A. 125V. AC.
2. SPST
3. ON-OFF
4. 2-4V. DC. 1A. 20mΩ or less
5. 500V. DC. 100MΩ or more
6. 1000V. AC. 1min
7. 6φ
8. Red/White/Black

**P80-3P.** Same as above but SPDT (ON-ON)

**P80-3PCO.** Same as above but SPDT centre off. (ON-OFF-ON).

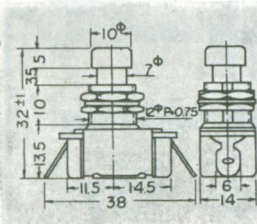
**P80-6P.** Same as above but DPDT (ON-OFF).

**P80-6PCO.** Same as above but DPDT centre of (ON-OFF-ON).

## PUSH BUTTON SWITCHES



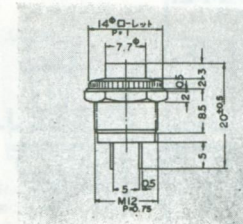
**P2-2P**



1. 10A. 125V. 6A. 250V. AC.
2. 2P(SPST)
3. ON-OFF (Push ON)
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ
8. Red/Black/Blue/Cream



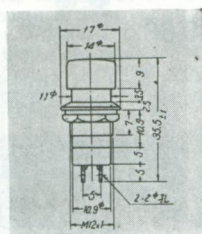
**P8-2P**



1. 1A. 125V. AC.
2. 2P(SPST)
3. ON-OFF (Push ON)
4. 2.5V. DC. 1A. 20mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ
8. Black



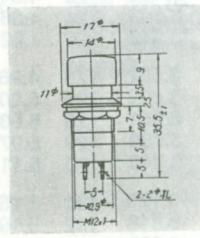
**P20-2P**



1. 3A. 250V. AC.
2. 2P(SPST)
3. ON-OFF (Push ON-Push OFF)
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ
8. Red/Black/Blue/Cream



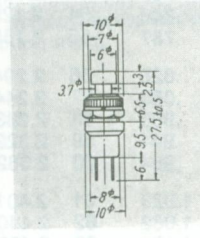
**P22-2P**



1. 3A. 250V. AC.
2. 2P(SPST)
3. ON-OFF (Push ON)
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ
8. Red/Black/Blue/Cream



**P44-2P**



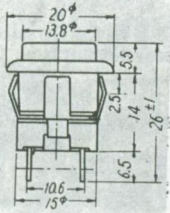
1. 1A. 125V. AC.
2. 2P(SPST)
3. ON-OFF (Push ON)
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1000V. AC. 1min
7. 7φ
8. Red/Black/Cream



# PUSH BUTTON SWITCHES



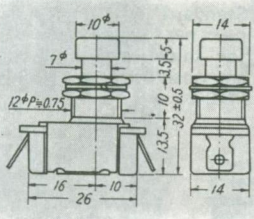
**P56-2P.**



1. 3A. 125V. AC.
2. 2P(SPST)
3. ON-OFF (Push ON)
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1000V. AC. 1min
7. 16φ
8. Red/Black/Cream



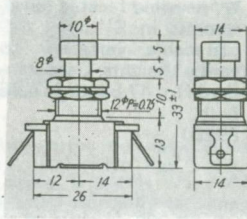
**P59-2P**



1. 10A. 125V. 6A. 250V. AC.
2. 2P(SPST)
3. ON-OFF (Push OFF)
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ
8. Red/Black/Blue/Cream



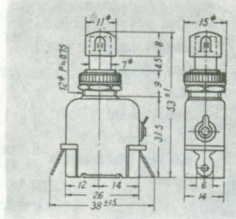
**P63-2P**



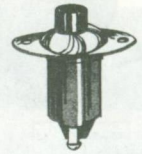
1. 6A. 250V. AC.
2. 2P(SPST)
3. ON-OFF (Push ON-Push OFF)
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ
8. Red/Black/Blue/Cream



**P100-2P (with built in neon lamp).**



1. 10A. 125V. 6A. 250V. AC.
2. 2P(SPST)
3. ON-OFF (Push ON-Push OFF)
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 12φ
8. Clear with neon lamp (not replaceable) and built in resistor.

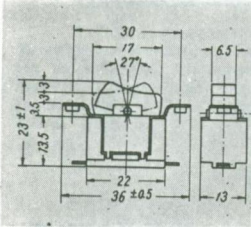


Excellent general purpose switch, momentary contact (push to close). Use for bells, buzzers etc. **P5220.**

# ROCKER SWITCHES



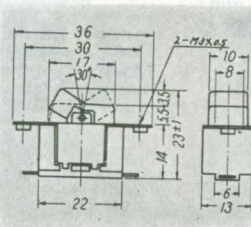
**P3A1-2P**



1. 6A. 250V. AC.
2. 2P(SPST)
3. ON-OFF
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 30mm
8. White with black dot



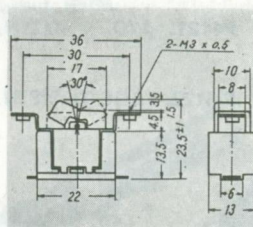
**P3B2-2P**



1. 6A. 250V. AC.
2. 2P(SPST)
3. ON-OFF
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 30mm
8. Black



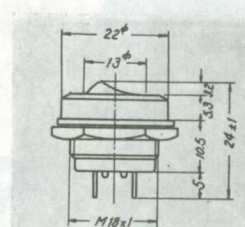
**P6-6P**



1. 10A. 125V. 6A. 250V. AC.
2. DPDT
3. ON-ON
4. 2.5V. DC. 1A. 10mΩ or less
5. 500V. DC. 100MΩ or more
6. 1500V. AC. 1min
7. 30mm
8. Red and White



**P33-2P**

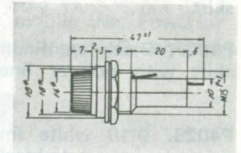


1. 3A. 250V. AC.
  2. SPST
  3. ON-OFF
  4. 2.5V. DC. 1A. 20mΩ or less
  5. 500V. DC. 100MΩ or more
  6. 1500V. AC. 1min
  7. 18φ
  8. Red/Black
- P33-6P.** Same as above but DPDT (ON-ON). \$1.88

# FUSE HOLDER



**P5036.**

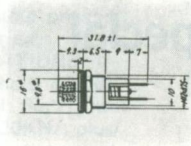


1. 10A. 250V. AC.
2. 2.5V. DC. 1A. 10mΩ or less
3. 500V. DC. 100MΩ or more
4. 1500V. AC. 1min
5. 1/4" x 1-1/4" (6.4φ x 31.8%)

# PANEL LAMPS



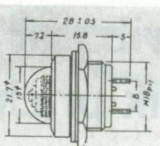
**P205**



1. 500V. DC. 100MΩ or more
2. 500V. AC. 1min
3. 12φ
4. Red/White/Yellow/Clear/Clear Green/Clear Blue/Amber/Clear Red
5. Midget Screw



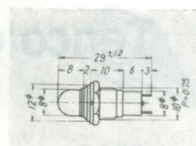
**P208**



1. 500V. DC. 100MΩ or more
2. 1000V. AC. 1min
3. 18φ
4. Clear/Clear Red/Clear Amber/with neon lamp(not replaceable) and built in resistor



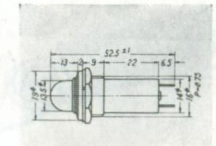
**P211**



1. 500V. DC. 100MΩ or more
2. 500V. AC. 1min
3. 10φ
4. Red/White/Yellow/Blue/Green/Clear/Clear Red
5. Midget Screw



**P216**

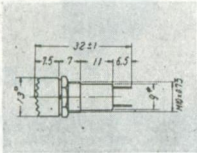


1. 500V. DC. 100MΩ or more
2. 1000V. AC. 1min
3. 16φ
4. Red/White/Yellow/Blue/Green/Clear/Clear Red
5. Miniature bayonet

# PANEL LAMPS & BULBS



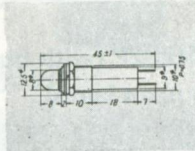
**P224.**



1. 500V. DC. 100MΩ or more
2. 500V. AC. 1min
3. 10 φ
4. Clear/Clear Red
5. Midget Screw



**P225.**



1. 500V. DC. 100MΩ or more
2. 500V. AC. 1min
3. 10 φ
4. Clear/Clear Red
5. Midget Screw with neon lamp & built in resistor



1/2" jewelled faceted lens, mounts in 1/2" hole. Adjustable vertically to various heights. Uses standard No. 47 bayonet base bulb. P5251.



Standard NE-2 replacement neon with long leads for solder mounting in any position. PNE-2.

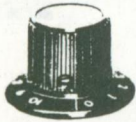


**SCREW BASE BULBS.** Both neon & incandescent for replacement in Tenco and other panel lamps. 2 per pkg., both types.

PT-1 3/4. Universal 6-12V incandescent type.

PN-1 3/4 neon.

## SKIRTED KNOBS



Smart skirted knobs with many electronic applications. Diameter at skirt: 1 7/16"; Height of knob: 1", Shaft size 1/4" with brass bushing & set screw. P4025. With black skirt & white pointer line.

P4026. 0-10 imprinted numbers on aluminum skirt.

P4027. Black aluminum skirt with pointer line.

P4028. 0-10 white imprinted numbers on black skirt.

## GENERAL REPLACEMENT KNOBS



1" diameter knob with metal ring and position dot. 1/4" shaft size, with with set screw. 4 per pkg. P4056.

## SOLID ALUMINUM KNOBS



All knobs have marker groove. Shaft size 1/4" with set screw. All 2 per pkg. P4113. 11/16"Dx3/8"H.

P4121. 1"D x 1/2"H.

P-4122. 1 3/16"Dx3/8"H.

## DUAL-GRIP SOLID ALUMINUM KNOB



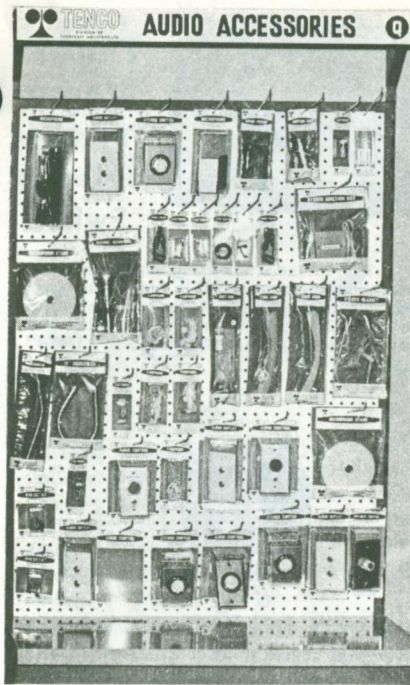
DUAL GRIP KNOB, 1" dia. at base, 3/4" dia. at top. 2 per pkg. P4119.

## KNOB ASSORTMENTS

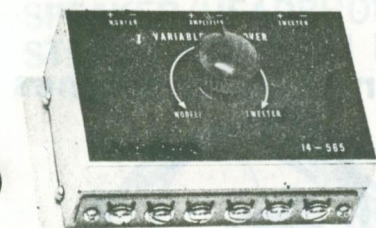
Popular size & style knobs for wide variety of electronic applications. Use as general replacement in repair work, for test equipment, kit building, hobby projects etc.

- PK-1. Pkg. of 6
- PK-2. Pkg. of 4
- PK-3. Pkg. of 6
- PK-4. Pkg. of 4
- PK-5. Pkg. of 8

**NOTE: New Miyama switches have been added to Marketing Programme "P" and are included in the foregoing section. Ask your Tenco distributor for special bulk pricing.**

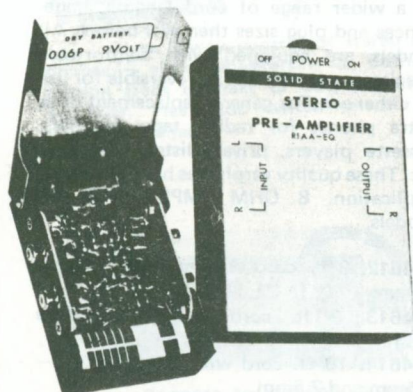


## Variable Crossover



This crossover will match any Woofer-Tweeter combination. The crossover is 2,500 Hz to infinity. All screw terminals clearly marked for easy hook-up. Beautiful gold and black finish. 4 3/4" long x 2 3/4" wide x 1 5/8" high.

Q-1071.



Compact new solid state pre-amp for low level magnetic cartridges. Gives RIAA equalization. SPECIFICATIONS: Input/output impedance: 50K ohms to 500K ohms; Gain: 34dB; Input level: 3mV; Output level: 1.8V; Response: 30-20KHz, plus/minus 1dB; S/N ratio & chan. separation: each over 50dB; Semiconductors: low noise silicon 2SC644S x 4; Power: 9v 006P battery; Drain: 1mA. Dimensions 2 1/2" x 3 1/2" x 1", wt. 6 oz. Battery extra.

Q-1076.



## Crystal Hand Microphone

Tiny match box size crystal mike in ivory and black with flip stand and 3 ft. shielded cable. 3 3/4"H x 1 7/8"W x 3/4" thick. Designed especially for tape recorders. 500K ohm impedance, 200-6000Hz response.

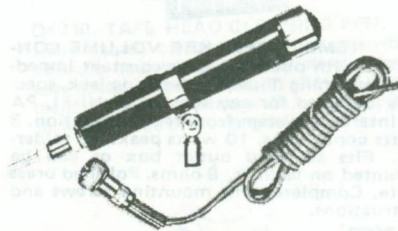
Q-1201.

## LAPEL MICROPHONE



For hobbyist, experimenter and student this crystal mike in sparkling black and silver case has become a valuable asset. 1 1/2" Dia with spring clip and 5' cord with miniature phone plug. Impedance: 85K Ohm. Output: 65dB.

Q-1202



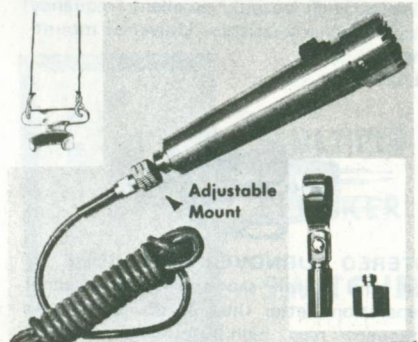
CRYSTAL MICROPHONE. Popular slim type in two tone black and chrome finish. Complete with shielded 5 ft. cable, adjustment mount, removable clamp, on/off switch. High impedance, 150-8,000 Hz response. Length: 7 inches; Dia. 1 1/4".

Q-1207



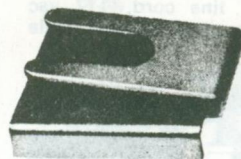
MIKE HOLDER. Ideal for use on standard floor or desk stands with 5/8-27 thread. Felt-padded friction clamp jaws for holding microphone. Height 3".

Q-1216.



CRYSTAL MICROPHONE. Slim type with smart brushed metal case. Mount on stand, hold in hand or hang from neck with all the accessories supplied. High impedance, 55-db, 150 to 9,000 KHz. Off-on switch. 57" gray shielded detachable cord. Brushed chrome. 5/8-27 standard thread. 5 1/4" x 1 1/8" dia.

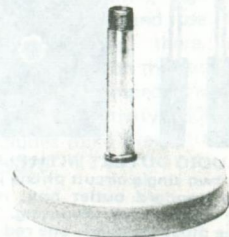
Q-1211A



## MAGNETIC MIKE HOLDER

Perfect for CB or mobile use. Powerful magnet attaches to any steel surface.

Q-1219



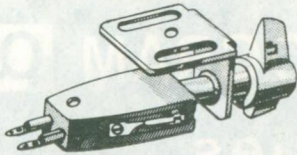
DESK MICROPHONE STAND. 5" dia. heavy plastic base with 3 1/2" chrome shaft. Standard 5/8-27 thread.

Q-1224

## MUSICAL INSTRUMENT CONTACT MIKE

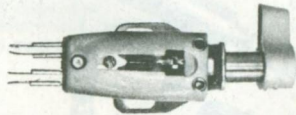


Q-1233 For any stringed or vibrating musical instrument. Clips on in any convenient position, and gives frequency response of 40-9,000 cps. Complete with 5 ft. shielded cable.



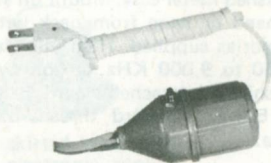
**MONAURAL TURNOVER CARTRIDGE.** Twin sapphire styli for 33-45-78 record players. High output, excellent frequency response characteristics. Universal mounting.

Q-1270



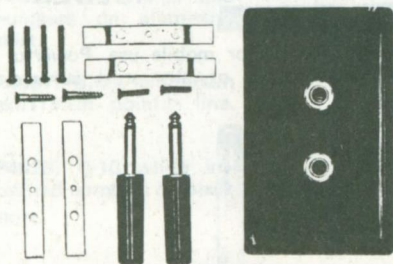
**STEREO TURNOVER CARTRIDGE.** .7 mil and 3 mil sapphire styli, channel separation better than 20 db. 20-16K hz frequency resp., high output.

Q-1275



**Q2019. TAPE HEAD DEMAG.**

New slender designer with curved, plastic covered tip. 6 ft. line cord, 117 vac operation. Will give years of dependable service.



**TWIN AUDIO OUTLET WITH PLUGS**

Wall plate has two single circuit phone jacks mounted. Fits standard outlet box. Hardware included for dry-wall mounting. Two standard phone plugs supplied—one red handle—one black handle. Ideal for stereo speaker installations.

Q-2033

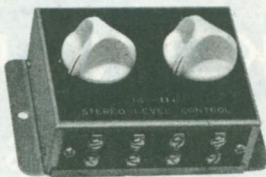


**STEREO  
WALL  
CONTROL**

Dual controls and speaker jacks are mounted on aluminum wall plate. Brass finish with attractive brown knobs. Has terminal strip on back for fast solderless connections. Matches 8-ohm output.

Q-2048

20



**STEREO  
LEVEL  
CONTROL**

Self-contained stereo audio controls, designed for surface mounting on wall or cabinet. Allow simultaneous control of both speakers. White finger-grip knobs. Gold and black case. Size: 3 1/2" x 2 3/4" x 1 1/4".

Terminals marked for easy hookup. 8 ohms.

Q-2049



**STEREO AUDIO LEVEL CONTROL.**

8 ohms, L pad type. TWO ganged rheostats, each with double elements, wire wound. Excellent audio level control for any stereo speaker system. 3 watts continuous, 10 watts peak, 30db to .5db attenuation. 3/4" bushing for speaker cabinet mounting or panel mounting. Complete with knob, polished brass plate and instructions.

Q-2051



**REMOTE SPEAKER VOLUME CONTROL** with phone plug. A constant impedance matching T pad with phone jack, specially designed for any speaker of HI-FI, PA or Intercom system from remote location. 3 watts continuous, 10 watts peak. No soldering. Fits standard outlet box or can be mounted on cabinet. 8 ohms. Polished brass plate. Complete with mounting screws and instructions.

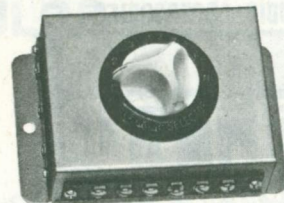
Q-2053

**7-way  
Stereo  
Speaker  
Selector  
Switch**



Selects 7 combinations in speaker system: Speakers 1, 2 or 3 separately, or 1 and 2, 2 and 3, 1 and 3, or all three together. White indicator finger-grip knob centered in black numbered ring. Mounted on brass plate, fits any standard outlet box. Screw terminals marked for amplifier and speaker connections. Plate size: 2 3/4" x 4 1/2".

Q-2061



**7-way  
Stereo  
Speaker  
Selector  
Switch**

For surface mounting. White indicator finger-grip knob centered in black numbered ring. Selects speakers 1, 2, or 3 separately, or 1 and 2, 2 and 3, 1 and 3, or all together. Beautiful gold finish. 3 1/2" x 2 3/4" x 1 1/4".

Q-2062



**RHEOSTAT.** 20 ohm rheostat with plastic cover and black pointer knob. 4.5 watts audio, 1.5w DC. 3 terminals, 1 1/8" dia., 1/4" L bushing.

Q-2074A

**Dynamic Earphones**



Now you can get quality TENCO earphones in a wider range of cord lengths, impedances and plug sizes than ever before. All models are equipped with comfortable eyeglass type ear support, reversible for use on either ear. For general replacement or as extra phones for radios, tape recorders, cassette players, private listening devices etc. These quality earphones have unlimited application. 8 OHM IMPEDANCE, all models.

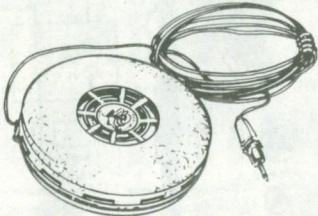
Q-4612. 3 ft. cord with miniature 3.5mm plug.

Q-4613. 3 ft. cord with subminiature 2.5mm plug.

Q-4614. 10 ft. cord with DUAL plugs — 3.5mm and 2.5mm.

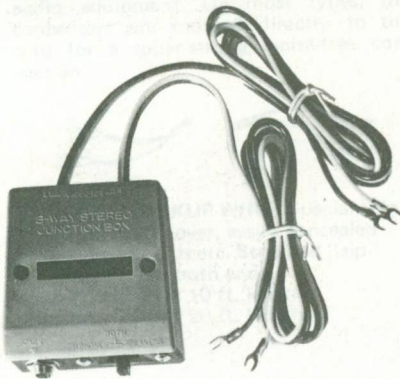
Q-4615. 20 ft. cord with miniature 3.5mm plug.

Q-4616. 20 ft. cord with subminiature 2.5mm plug.



**PILLOW SPEAKER.** Not just another "pillow speaker", this patented device produces sound vibrations which are heard best when conducted to the inner ear by a solid pathway, rather than air. No danger of disturbing others—even husband or wife asleep in the same bed! Supplied jack permits easy plugging into radio or TV. Q-4619

## SPEAKER/HEADPHONE STEREO JUNCTION BOX



Gives 3 way control of stereo headphones — stereo speakers — or both. Extension leads connect to output of stereo amplifier. Has slide switch selector and stereo phone jack.

Q-4637



Connect to speakers outputs of stereo amplifier to permit use with stereo headphones. Has single stereo phone jack, and gives full overload protection. Can be panel mounted if desired.

Q-4637A

## REEL LOCKS



**Q4803.** Stop re-wind chatter with these all rubber holders. Prevents spilled tape and broken reels.

## TAPE SPLICERS



**Q4805.** For quick, professional splices on all regular 1/4" tapes.

**Q4805B.** Replacement pads for above splicer. Two per package.

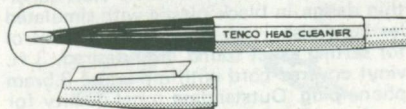
**Q4806. CASSETTE TAPE SLICER.** Splices any cassette tape cleanly & accurately. Same style as illustrated above.

## TELEPHONE

### PICKUP



With this amazing device you can record or amplify both sides of phone conversations. No wire connections to phone... suction cup attaches to receiver. Miniature phone plug connects to amplifier or recorder. Q-4807



**Q4810. TAPE HEAD CLEANING PEN.** Fibre tipped cleaning pen with reservoir for cleaning fluid in barrel. Long slender tip gives easy access to tape heads on all types of equipment including cartridge & cassette players. Includes bottle of cleaning solvent.

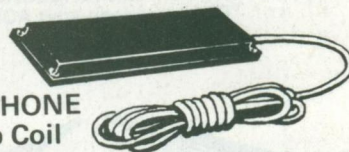


### RECORD CLEANING BRUSH.

Attaches to side of tone arm and cleans the record as it turns. Soft camel hair brush in ultra lightweight universal mounting.

Q-4818

## TELEPHONE Pick-up Coil



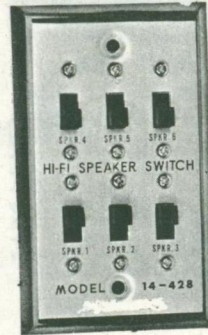
Attaches to bottom of phone base, out of sight. Plugs into any amplifier, tape recorder etc. and picks up both sides of a telephone conversation clearly and crisply. Complete with shielded cable.

Q-4833



**45 RPM ADAPTER.** Bakelite dome type with finger grip for use on any phonograph.

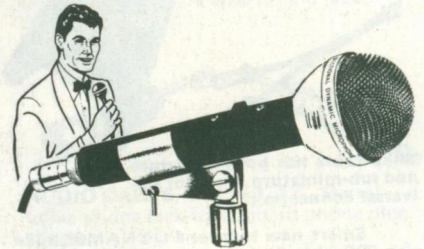
Q-5026



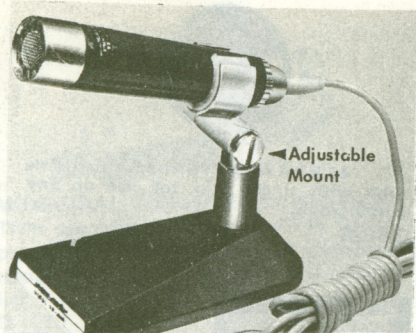
## MULTIPLE SPEAKER SWITCHES

Six DPDT slide switches mounted on a brass plate that fits a No. 6 electrical outlet box. Ideal for selecting one to six speakers. Plate dimensions: 2 3/4" x 4 1/4".

Q-5226



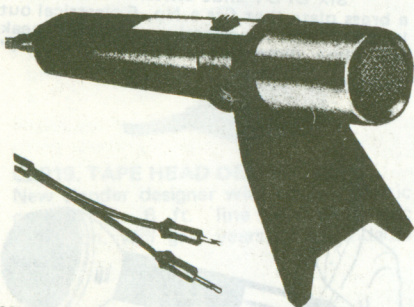
**SPHERICAL CARDIOD DYNAMIC MICROPHONE.** Versatile, high impedance mike for hand or stand use. Pattern is non-directional, and there is a convenient on-off switch on the barrel. Specifications: 50K ohms impedance; Response: 100-10KHz; Sensitivity: -60db at 1000 cycles. Includes mike bracket and shielded cable. Q-9070



### Miniature Dynamic with Desk Stand

Measures only  $\frac{7}{8}$ " diameter x  $3\frac{7}{8}$ " long. Stands  $5\frac{1}{2}$ " high, maximum, with adjustable desk stand supplied. Slides out of mike holder for convenient hand-held uses. Directional pickup pattern. 60-12,000 Hz. 50,000 ohm impedance. Output rating -57db (EIA). Attractive dark gray acrylic enamel finish with brushed chrome trim. Shielded cord supplied. Adaptor is removable from desk stand for boom or floor stand applications.

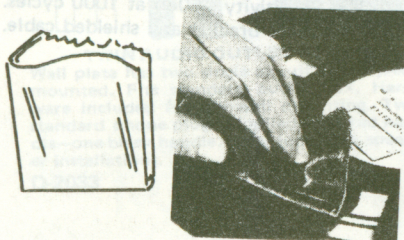
Q-9084



Mike cable has both miniature and sub-miniature plugs for universal connection.

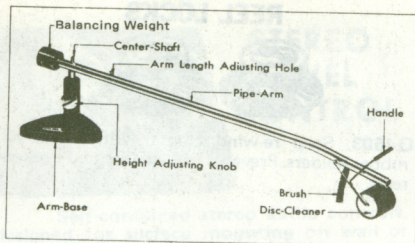
Smart new two-tone DYNAMIC mike with 200 ohm impedance and 78db output. Finished in chrome and black with removable plastic stand. 5 ft. cable with Y adaptor plugs. Lgth. 4 1/2", Dia. 7/8", on/off switch.

Q-9112



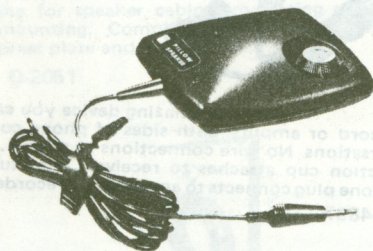
**CHEMICALLY TREATED RECORD CLEANING CLOTH.** Newly developed record cleaning cloth. Special woven velvet-type cloth impregnated with silicone formula, cleans records and eliminates static in one operation. Deposits thin protective film to dissipate static charges. Both sides usable.

Q-10138



**DISCDUSTER.** Two cleaning devices are used on the Tenco Discduster to remove harmful dust and foreign particles from the grooves of your records. While the record is playing, a super-fine brush sweeps through the grooves. At the same time, a soft fabric cylinder rides gently on top of the record. This cylinder is specially treated with anti-static chemicals and does a highly effective job in helping to keep your records both noise free and dust free. Two spare cylinders included.

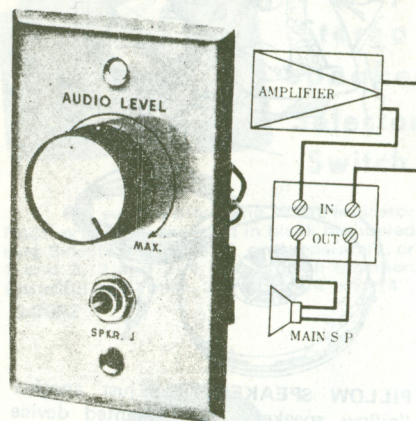
Q-10139



**DELUX PILLOW SPEAKER.** New super-thin design in black plastic with simulated leather finish. Has recessed volume control for setting exact sound level desired. 3 ft. vinyl covered cord with miniature 3.5mm phone plug. Outstanding tonal quality for music, and crisp clear voice frequencies. Versatile enough for use in schools, hospitals, institutions, homes. Plugs into radio, TV, tape recorder or other audio devices.

Q-4620

## WALLPLATE CONTROL



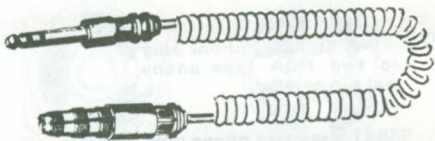
**Q-2057.** Remote speaker volume control, fits standard outlet box or can be panel mounted. L pad circuit, rated at 3 watts continuous or 10 watts peak. Polished brass face-plate with knurled knob on control. Has phone jack on front that can be used for additional speaker or for headphones. 8 ohms impedance.



A complete selection of cables and adapters covering a broad range of audio applications. All the popular combinations for stereo sound systems, tape recorders, phono graphs, musical instruments and related audio equipment. On most types, the connectors are molded directly to the cord for a super-strong, noise-free connection.



**SPEAKER HOOKUP WIRE.** Special thin type with vinyl cover, easily concealed around baseboards etc. Stranded "zip" type. Spade lugs both ends.  
**S990-10** Pair of 10 ft. lengths  
**S990-20** Pair of 20 ft. lengths



**STEREO HEADPHONE EXTENSION.** Curly cord, extends to 30 ft. Stereo phone plug one end, inline stereo phone jack other end.  
**S3204**



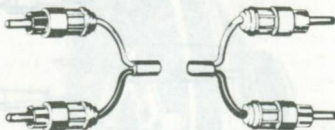
**JUMPER CABLE KIT.** Four shielded and colour coded jumper cables with RCA type phono plugs both ends. Black, yellow, green, red.  
**S3211.** 72", set of 4.  
**S3219.** 36", set of 4.

# MARKETING PROGRAM S

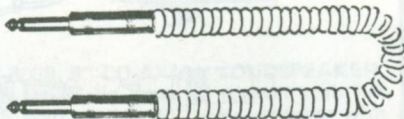
## Cables & Flexible Adapters



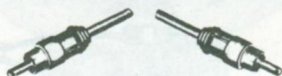
**AUDIO CURLY CORD.** 36" with molded RCA type phono plugs both ends.  
**S3221.**



**STEREO CONNECTING CABLE,** with twin RCA type phono plugs both ends.  
**S3222.** 36"  
**S3223.** 72"



**MUSICAL INSTRUMENT CORD.** Shielded curly cord with shielded straight metal phone plugs on both ends. Extends to 15 ft.  
**S3227.**



**AUDIO CABLE.** Shielded, with RCA type phono plugs on both ends.  
**S3232.** 36"  
**S3233.** 48"  
**S3235.** 72"



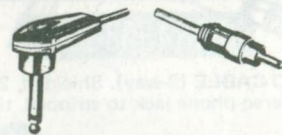
**AUDIO CABLE.** Shielded, RCA type phono plug to phono jack. 60".  
**S3239.**



**AUDIO CABLE.** Shielded. Standard phone plug to RCA type phono plug. 60"  
**S3244.**



**AUDIO CABLE.** Shielded, RCA type phono plug to barrel type inline phone jack. 60"  
**S3249.**



**AUDIO CABLE.** Shielded, right angle phone plug to RCA type phono plug. 60"  
**S3259.**



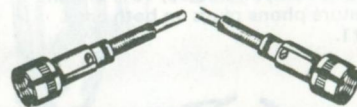
**AUDIO CABLE.** Shielded, 72" RCA type phono plug to tinned stripped ends.  
**S3276.**



**AUDIO CABLE.** Shielded, 72" Standard phone plug to RCA type phono jack.  
**S3278.**



**AUDIO CABLE,** shielded, 72". Barrel inline phone jack to standard phone plug.  
**S3282.**



**MICROPHONE CABLE,** shielded, 12 ft. All metal mike connectors on both ends.  
**S3284.**



**JUMPER CABLE.** Shielded, 72". The alligator clips to RCA type phono plug.  
**S3291.**

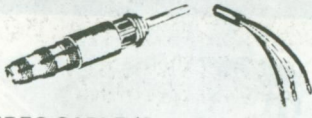


**AUDIO CABLE.** RCA type phono plug to twin spade lugs.  
**S3293.** 36"  
**S3294.** 72"

CONTINUED . . .



**STEREO CABLE (3-way).** Shielded, 20 ft. Stereo phone plug to stripped, tinned leads. S3301.



**STEREO CABLE (3-way).** Shielded, 20 ft. Inline stereo phone jack to stripped, tinned leads. S3303.



**AUDIO CABLE.** Shielded, 72". RCA type phono jack to 3.5mm miniature plug. S3305



**AUDIO CABLE.** Shielded, 72". Standard phone plug to miniature 3.5mm phone jack. S3307.



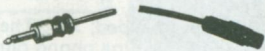
**AUDIO CABLE.** Shielded, 72". RCA type phono plug to miniature phone plug. S3309.



**AUDIO CABLE.** Shielded, 72". 3.5mm miniature phone plugs on both ends. S3311.

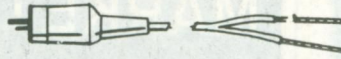


**JUMPER CABLE.** Shielded, 72". 3.5mm miniature phone plug to twin alligator clips. S3315.

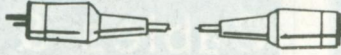


**AUDIO CABLE.** 3.5mm miniature plug to 3.5mm miniature jack. Shielded. S3317. 10 ft.

## CONTINENTAL DIN CABLES



S3325. T plug on one end to stripped tinned leads. 6 ft.



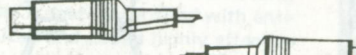
S3327. T plug on both ends. 6 ft.



S3329. Three pin male plug to twin RCA type phono plugs. 6 ft., colour coded.



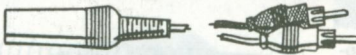
S3331. Five pin male plug to four RCA type phono plugs. 6 ft., colour coded.



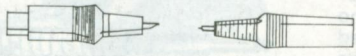
S3333. Five pin male plug on both ends. 6 ft.



S3335. 5 pin female connector to four RCA type phono plugs. 6 ft., colour coded.



S3337. Five pin female connector to twin RCA type phono plugs. 6 ft., colour coded.



S3340. 3 pin male to 3 pin female. 6 ft.

S3343. 5 pin male to 5 pin female. 6 ft.

## FLEXIBLE "Y" CONNECTORS



S4827. RCA type phono plug to 2 RCA type phono jacks in parallel.



S4828. RCA type phono plug to 2 RCA type phono jacks in parallel.



S4829. RCA type phono plug to RCA type phono jack and phono plug in parallel.



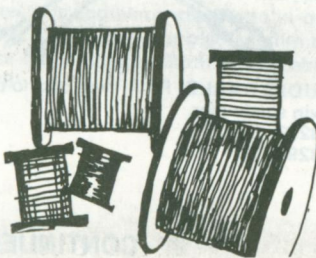
S4840. Standard phone plug to two RCA type phono jacks in parallel.



S4841. Standard phone plug to two RCA type phono plugs in parallel.



S4844. RCA type phono plug to inline stereo jack.



## SPEAKER WIRE ON REUSABLE PLASTIC SPOOLS

Top quality "Zip" type wire for any installation requiring speaker extension cable. Stranded 2 conductor, available in grey vinyl covering or clear covering.

- S-988-50. 50 ft. grey vinyl
- S-988-100. 100 ft. grey vinyl
- S-990-50. 50 ft. clear cover
- S-990-100. 100 ft. clear cover

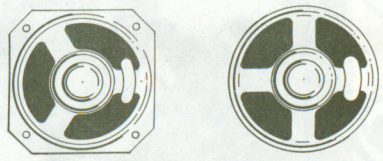




**MINIATURE LOUDSPEAKERS**



Both square and round type miniature speakers for a wide variety of sound applications. Use in small to medium size home music systems, intercom and PA installations, or as replacement types in radios, TV sets, phonographs etc.



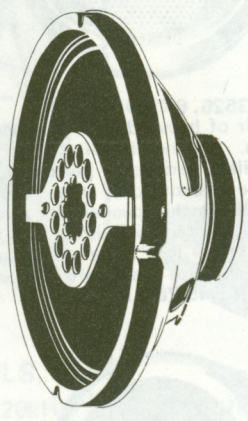
**IMPEDANCE FOR ALL MODELS LISTED BELOW IS 8 OHMS.**

- T3020. ROUND, 1 1/4" 100mv
- T3022. ROUND, 2" dia., 150mv
- T3024. ROUND, 2 1/4", 200mv
- T3027. SQUARE, 2 1/2", 300mv
- T3030. ROUND, 2 3/4", 300mv
- T3032. ROUND, 3" 500mv
- T3033. SQUARE, 3" 500mv
- T3035. ROUND, 3" with square housing (not illustrated). 500mv
- T3036. SQUARE, 3 1/2", 500mv
- T3037. ROUND, 3 1/2", with square housing (not illustrated). 700mv
- T3038. ROUND, 3 1/2", 500mv

# MARKETING PROGRAM T

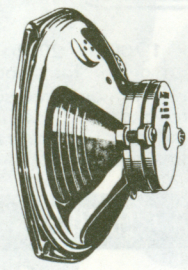
Stereo Headphones,  
Loudspeakers & Sound accessories

**LOUDSPEAKERS**



**T.3089. 8" CO-AXIAL LOUDSPEAKER.** Professionally designed speaker with full 15 watt rating. 40-15kHz response with built-in crossover network. 8 oz. ceramic magnet, 8 ohms impedance.

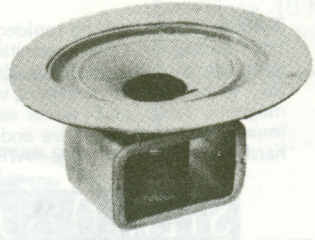
**LOUDSPEAKERS**



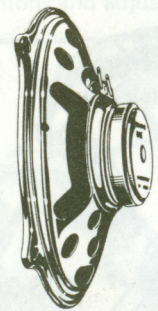
**8 INCH FULL RANGE**  
**5 INCH FULL RANGE**

**T-3088. 8" FULL RANGE LOUDSPEAKER** with 6 oz. ceramic magnet. 6 watt rating, 8 ohms impedance.

**T-3055. 5" Full range loudspeaker** with 3 oz. ceramic magnet. Excellent general replacement type. 5 watt rating, 8 ohms.



**T10150. FOUR INCH AIR SUSPENSION.** Small in size but packs a big bass sound with frequency response from 60Hz right up to 16Khz. High compliance, long throw voice coil and massive magnet matches the sound quality of many speakers much larger in size. 1 1/8" magnet diameter; frame dia. 5"; total depth 2 3/4"; 8 ohms impedance, 3 watt rating.



**6 x 9 FULL RANGE**

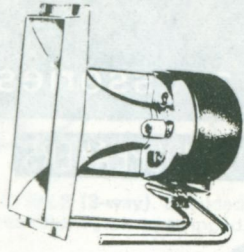
**T-3069. 6 x 9 INCH FULL RANGE OVAL SPEAKER.** Extension or replacement speaker for all general applications. 5.6 oz. ceramic magnet, 7 watts, 8 ohms impedance.



**T10158. 6 1/2" SPEAKER IN WALNUT ENCLOSURE.** 5 watt speaker in fully enclosed cabinet with smart decorator grill cloth on front. 9 1/2" square x 4" deep with volume control on top. 8 ohms.

CONTINUED . . . .

## PROFESSIONAL HORN TWEETER



**T4001.** 20 watt rating, 1,700 to 20Khz response. Exponential horn design for smooth, flat frequency response. Horn mouth measures 4 1/2" high 2 1/4" wide; horn depth: 4 5/16". will mount directly on baffle, or has removable adjustable fork base. 8ohms impedance.

## STEREO HEADPHONES



**TCIS-500.**



**TCIS-300.**



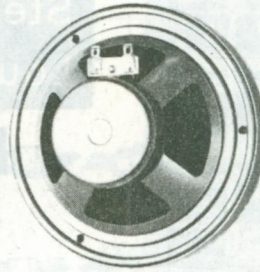
**TCIS-250.**

**TCIS-500.** Deluxe stereo headset with built-in SLIDE CONTROL in each earpiece. Large moving coil dynamic speakers, 20-20kHz response. Luxurious foam rubber ear cushions and padded adjustable headband, 12 ft. stereo curly cord.

**TCIS-300.** Extended range headset with frequency response from 20 to 18kHz. 2 1/2" dynamic speakers in each side, full adjustable headband. 9 ft. stereo cord, 8 ohms impedance.

**TCIS-250.** 2 1/2" speaker each side, 8 ohms.

## STEREO AUTO SPEAKERS



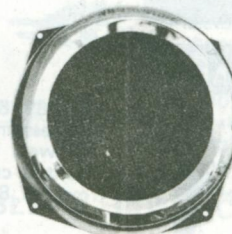
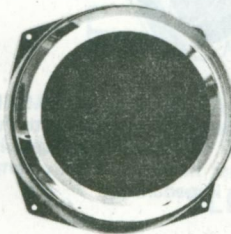
**FLUSH MOUNT  
STEREO PAIR  
WITH  
CHROME GRILLES**

### T-3526. 6 1/4" DIAMETER

Pair of heavy duty 7 watt speakers in 6 1/4" dia. all metal grilles of chrome steel. Grilles remove to permit flush mounting (see illustration), then the grilles snap back on the speakers for a handsome and well protected finished job. Speaker cone diameter is 5". Ceramic magnets, 8 ohms impedance. Hardware and wire included. PRICE IS PER PAIR.

### T-3525 . 5 1/2" DIAMETER

Same physical appearance as larger model, with 4 1/2" speaker. 5 watts, ceramic magnet, 8 ohms impedance. Hardware & wire included. PRICE IS PER PAIR.



**SURFACE  
MOUNT  
STEREO PAIR**

**T-3556** Smart looking molded black plastics housing with chromed steel grille and trim. Housing tapers from 3 1/4" at top to 2 1/4" at bottom. 5" speakers, with ceramic magnets, rated at 5 watts each. 8 ohms impedance. Includes wire and installation hardware. PRICE IS PER PAIR.

## STEREO SOUND ACCESSORIES



**T4644. STEREO HEADPHONE JUNCTION BOX.** Remote station for controlling stereo speakers or stereo headphones. Terminal board on back connects to speakers and amplifier output, front panel has jacks for 2 sets of stereo headphones. On/off speaker switch and separate headphone volume controls. 4 1/4" L x 1 3/4" H x 2 3/4" D.



**T4845. STEREO "Y" ADAPTER.** Twin inline stereo phone jacks with 3 ft. cables connect to single stereo phone plug. Gives dual stereo headphone listening from single amplifier output. Insulated bakelite barrels and vinyl covered cables.



**T-3990-20. SPEAKER HOOKUP WIRE.** Two 20 ft. lengths of special "zip" type wire for speaker hookup. Transparent vinyl covering, very thin and easily concealed. Spade lugs on all ends.



**T3203. STEREO HEADPHONE CURLY CORD.** Light, springy cord that extends up 20 ft. and permits you to move about while listening to stereo headphones. Stereo phone plug to inline stereo phone jack.

## NEW Stereo Headphone Values!



### AR-500. PROFESSIONAL DYNAMIC STEREO HEADPHONES WITH DUAL SPEAKERS & DUAL VOLUME CONTROLS.

**SPECIFICATIONS:** 4 to 16 ohms impedance; 20-20kHz frequency response; 0.5 watts maximum input. 3 1/2" woofer and 1 3/8" tweeter with built in crossover network in each side. Separate volume controls for each channel. 10 ft. curly cord with stereo phone plug. Super-soft ear pads and adjustable headband. COLOUR AVOCADO.

AR-500C. Smart vinyl carrying case for above.



COLOUR AVOCADO

### AR-400. DYNAMIC STEREO HEADPHONES WITH FINGER-TIP SLIDE CONTROL FOR EACH CHANNEL

**SPECIFICATIONS:** 4 to 16 ohms impedance; 50-18kHz frequency response; 0.5 watts maximum input. 3" speaker and slide volume control in each earpiece. 10 ft. detachable curly cord with stereo phone plug. Padded ear cushions and adjustable headband.



### AR-300. DYNAMIC STEREO HEADPHONES WITH REMOTE CONTROL BOX

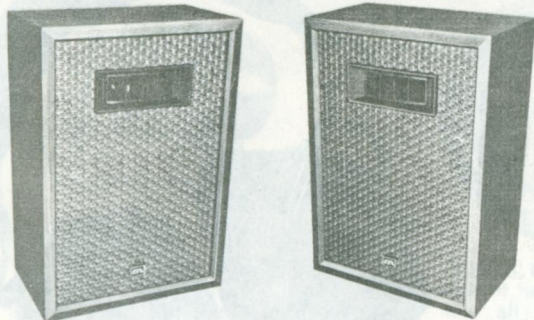
**SPECIFICATIONS:** 8 ohms impedance; 50-19kHz frequency response; 0.5 watts maximum input; 3" PM dynamic speaker in each earpiece. Detachable remote control box has stereo/mono switch and separate level control for each channel. 10 ft. curly cord with stereo phone plug. Colour of headphones is attractive Avocado green.



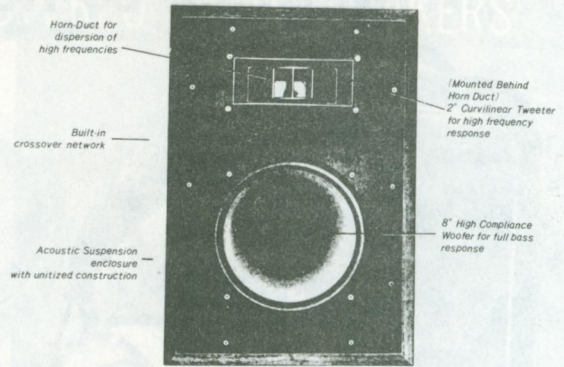
### HS-1000DT. PROFESSIONAL STEREO HEADPHONES WITH DUAL SLIDE CONTROLS.

**SPECIFICATIONS:** 4 - 16 ohms impedance; 15-24kHz frequency response; 0.5 watts maximum input; 3" roll edge woofer with film diaphragm tweeter in each earpiece with built-in crossover network. Dual slide controls are built into one earpiece giving finger-tip control of both channels. 13 ft. curly cord with stereo phone plug.

# NEW Bookshelf Pair for critical listening

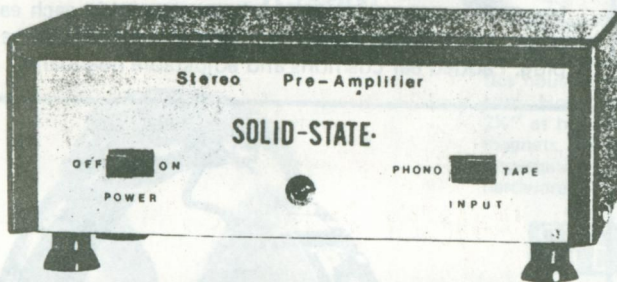


**SP-620.** Three speakers in each enclosure give this handsome pair an extremely broad frequency response. For professional appearance a visible horn duct is built into the front panel. This horn is driven by a pair of 2" tweeters with a frequency range of more than two octaves covering the 3kHz - 16kHz spectrum and hooked into an electrical crossover network. The 8" high-compliance woofer has a 70-5kHz operating scale is rated at 30 watts. Rigid, airtight cabinetry in smart decorator finish, full specifications opposite. Sold in pairs only.



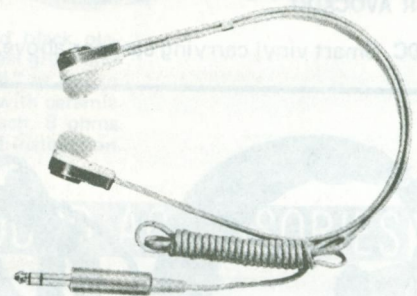
Size	15 7/8" (H) x 10 3/4" (W) x 6 7/8" (D)
Drivers	8" Woofer, 2" Tweeter
Nominal Impedance	8 ohm
Voice Coil Diameter	Woofer 1", Tweeter 1/2"
Magnet Size	Woofer 80 x 32 x 8 mm Tweeter 13 x 15 mm
Magnet Weight	Woofer 3oz., Tweeter 0.52oz
Max. Power Handling Capacity (1 Pair)	28W
Gap Flux Density	Woofer 8,000 gauss Tweeter 6,800 gauss
Sensitivity	93dB/W
Fundamental Frequency	50 Hz
Frequency Response	70 - 16,000 Hz
Crossover Frequency	5,000 Hz
Net work	6dB/Oct.
Connection to Amplifier	RCA pin plug cord
Cabinet	Vinyl coated
Gross Weight (1 Pair)	17.5 lbs.

## SOLID STATE STEREO PRE-AMP



**1078.** Smart, compact pre-amp designed for use with any amplifier NOT having a low-level input. RIAA equalization for magnetic cartridges; NARTB for tape heads. **SPECIFICATIONS:** Response: RIAA & NARTB; Gain: 45db; Max Input: 12mv; Max Output: 1.8v; Sig/Noise ratio: -60db; Input Impedance: 10K ohms; Output impedance: 100-500K ohms; Transistors: 4 noiseless type silicon; Power source: 117vac external or 9v internal (self-contained battery). Dimensions: 6" long x 2" high x 3" deep. Rubber suction-cup feet.

## UNDER-CHIN DYNAMIC STEREO HEADPHONES



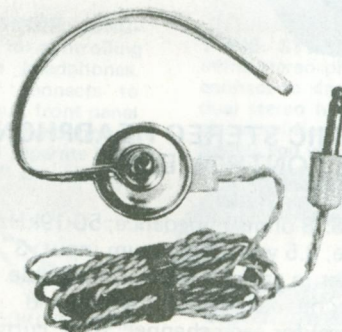
**ES-100u.** Feather-light self adjusting headphones offering stereo sound at an economy price. 6 foot shielded cord with standard stereo plug. **SPECIFICATIONS:** Impedance rating 8 ohms; Maximum allowable input: 120 mW; Frequency response: 25-13,000 Hz; Cord: 5 feet long; Net weight: 64 grams.

### Model RS-1 Compact Round Hi-Fi Speaker System

\*Impedance: 8 ohms \*Freq. range: 50 - 18,000 Hz \*Input power: 5W (8W Max.) \*Speaker: 3" High compliance full-range speaker with heavy ceramic magnet. \*Cord: 6 ft. cord with RCA plug



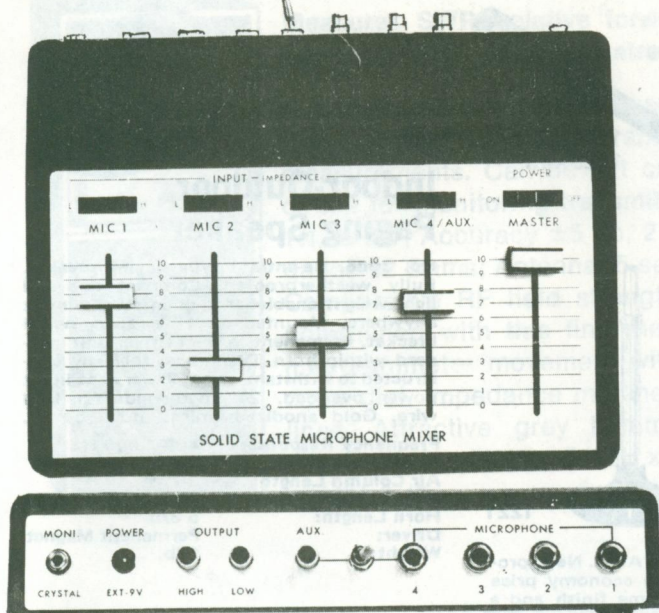
**NEW**



## NEW Dynamic Earphone

**4623.** Now a dynamic earphone with the popular 3K ohm impedance rating. Complete with ear hook, 3 ft. cord and 3.5mm miniature plug.

## FOUR CHANNEL MIKE MIXER WITH SLIDE CONTROLS MX-10



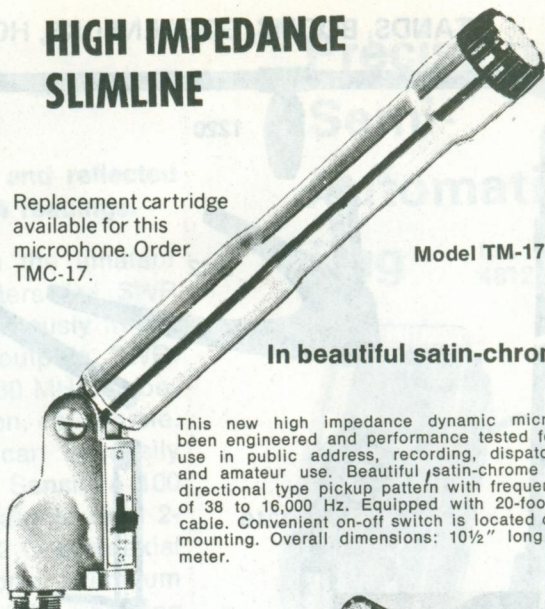
A versatile, compact mike mixer just 10" long but packed with sophisticated features. Calibrated slide controls — hi/lo input rocker switches — self-contained battery or external power jack — low current drain solid state circuitry throughout with SEVEN low noise silicon transistors. Case is all metal, finished in black crackle and brushed aluminum, and entire unit weighs just 3 lbs.

**SPECIFICATIONS:** Input impedance: 600 ohms/50K ohms on all 4 mike channels plus 200K ohms auxiliary; Response: plus/minus 2db, 30-20KHz; S/N ratio: over 45db with all pots open; Voltage: 9V internal or external; Dimensions: 10" L x 7"D x 2"H.

## HIGH IMPEDANCE SLIMLINE

Replacement cartridge available for this microphone. Order TMC-17.

Model TM-17

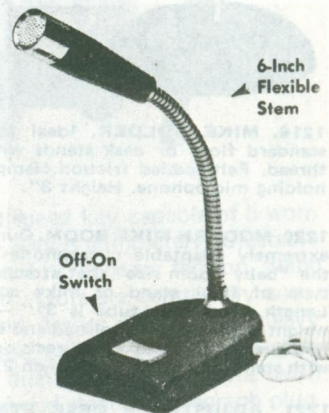


In beautiful satin-chrome finish

This new high impedance dynamic microphone has been engineered and performance tested for all-around use in public address, recording, dispatch work, CB and amateur use. Beautiful satin-chrome finish. Non-directional type pickup pattern with frequency response of 38 to 16,000 Hz. Equipped with 20-foot detachable cable. Convenient on-off switch is located on the swivel mounting. Overall dimensions: 10½" long x 1½" diameter.

## 9071. Quality Dynamic on Gooseneck with Stand

A small, versatile dynamic microphone with 6" gooseneck stand and rocker-type off-on switch built into base. Frequency range: 100-12,000 KHz. Sensitivity: -55db. 5-foot shielded cable. Attractive satin chrome and brown. High impedance: 50,000 ohms. Mike is 3½" long, ⅜" diameter. 3" X 4½" base.

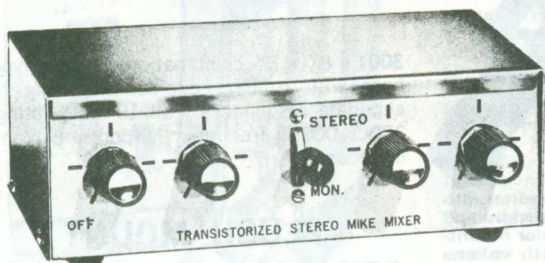


6-Inch Flexible Stem

Off-On Switch

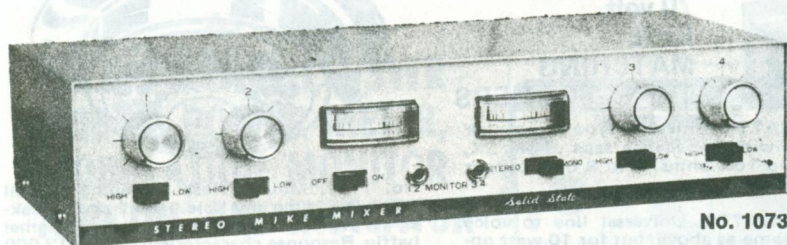
## TRANSISTORIZED STEREO-MONO MIKE MIXER

1070



Four channels allow use with any high impedance microphone or other source. Stereo or monaural mixing is made possible by the stereo-mono selector switch. All inputs take standard ¼" plug. Outputs are through standard phono jacks. Hum is -0. db. Maximum signal output is 2.5 volts. Operates on standard 9-volt battery. Overall dimensions: 6" wide x 2¾" high x 3½" deep.

## DELUXE SOLID STATE STEREO MIKE MIXER

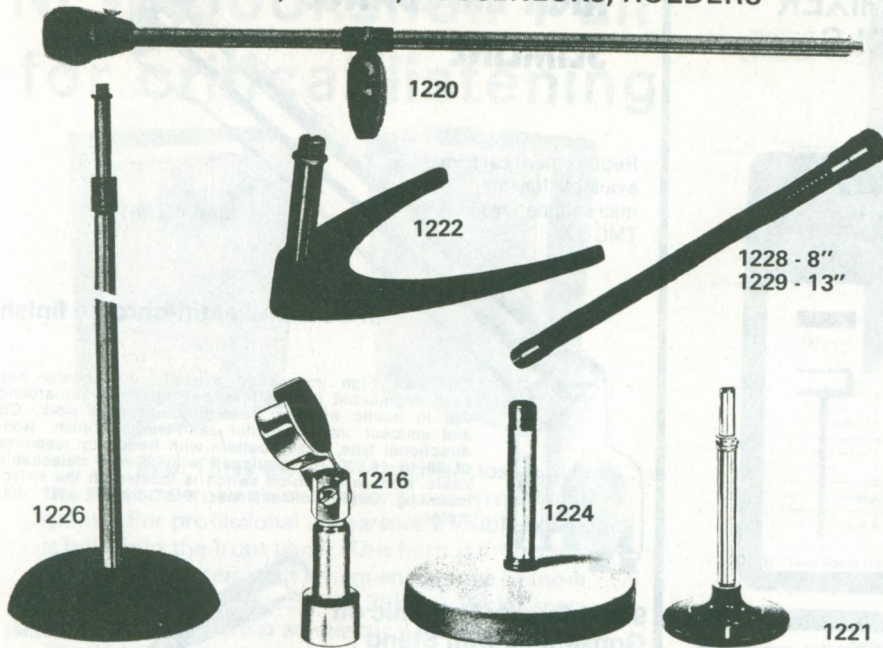


No. 1073

- Four Channels
- High or Low Impedance
- Battery Operated
- Twin VU Meters

This beautifully designed mixer can be used with either high or low impedance mikes, and requires only a 9 volt battery for operation. Delivers a high impedance output to any amplifier. Separate controls and separate input switching. **SPECIFICATIONS:** Input: 600 ohms, 50K ohms or both; Output: 1 volt; Distortion: less than .5%; Noise level: -70db; Gain: 8db at 600 ohms; 13db at 50K ohms; Response: 20-20KHz; Eight transistors and eight diodes. Size: 10¼" x 5" x 2¼".

## STANDS, BOOMS, GOOSENECKS, HOLDERS



**1216. MIKE HOLDER.** Ideal for use on standard floor or desk stands with 5/8-27 thread. Felt-padded friction clamp jaws for holding microphone. Height 3".

**1220. MODERN MIKE BOOM.** Our new and extremely adaptable microphone boom in the "baby boom size" that attaches to any type of floor stand or mike accessories. Length of chrome tube is 31" — counter weight is gray wrinkle finished and completely adjustable. All parts are precision castings with standard threads — 5/8 inch-27.

**1221. ADJUSTABLE DESK STAND.** An attractive stand that looks well with any mike. Stem is polished chrome, and base is glossy black. Adjustable from 8 1/4" to 12 1/2". Cast base.

**1222.** Newly designed stand with beautiful black wrinkle enamel base and 4" stem. Standard thread.

**1226. DELUXE FLOOR STAND.** New, professional floor stand in the economy price range with a lifetime chrome finish and a heavy wrinkle gray base for maximum stability. Standard 5/8-27 threads for microphone attachment. Extends from 30 inches to 60 inches with convenient "full grip" clutch. 12" diameter heavy cast base.

**1224. DESK MIKE STAND.** 5" plastic base & 3 1/2" chrome shaft. Standard 5/8-27 thread.

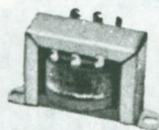
**1228. 8" GOOSENECK**

**1229. 13" GOOSENECK**



### GUITAR MICROPHONE For flat-top (round hole) models

No. 1227. Sets inside the hole of guitar, directly under strings for maximum pickup and effect. Clip attachment - no screws or mounting holes required. Complete with volume and tone control, and 6 ft. shielded cable with standard jack.



### 70 volt LINE MATCHING TRANSFORMERS

**9077. 5 WATTS.** Universal type for speaker mounting, with impedance taps of 1K, 2K, 4K, 8K and 16K ohms. 4 to 8 ohm output impedance.

**9078. 10 WATTS.** Universal line to voice coil type same as above, but for 10 watt operation. 500,1K,2K,4K,8K ohms primary, 6-8 ohm output impedance.

**Fabulous Buy! Our  
Best-Selling Speaker**

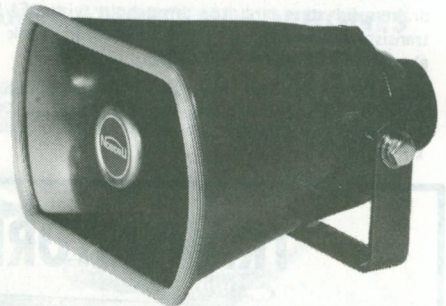


### 5" Indoor-Outdoor Paging Speaker

**No. 3005.** Re-entrant type paging speaker. Fully weatherproofed. Compact size and light weight enables it to be installed almost anywhere. Mounted on 180° swing-swivel bracket. Permanent magnet driver unit enclosed within horn. Diaphragm specially constructed to withstand up to 30 per cent input power overload. 24" two-conductor lead wire. Gold anodized finish. Indiv. boxed.

**Frequency Response:** 400-7,000 Hz  
**Power Rating:** 5 Watts  
**Air Column Length:** 3 1/4"  
**Bell Diameter:** 5"  
**Horn Length:** 5 3/8"  
**Driver:** Permanent Magnet  
**Weight:** 1 lb.

### RECTANGULAR Reflex Horn



**3001.** 8" x 5" combination outdoor type horn with rubber edge-damping ring to eliminate resonances. Full 10 watt rating, 300-5,000Hz frequency response. 8 ohms impedance.

### FLUSH MOUNT CEILING-WALL SPEAKER



**No. 1197.** Mounts flush to ceiling or wall without cutting any hole. Heavy duty speaker is pre-mounted in smart white enamel baffle. Response characteristics of 60-13,000 cps make this an excellent speaker for music or hi-fi systems in home, office or plant. 9 1/2" diameter, 2 1/2" deep. 8 ohms.

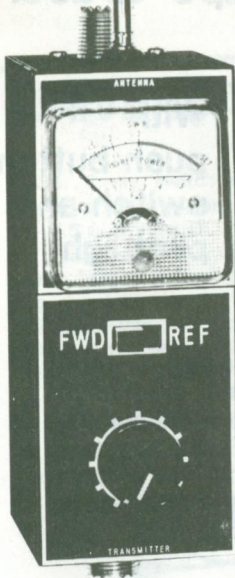


### GUITAR MICROPHONE For Arch-top (F hole) models

No. 1225. It is easy to make an attractive functional installation with this all-chrome unit. High impedance contact element matches any standard high impedance input. Separate volume and tone controls. Standard phone plug and 6-foot shielded cable. Frequency response 40 to 12,000 cps. Includes necessary hardware.

## SWR BRIDGE AND FIELD STRENGTH METER

Model 610

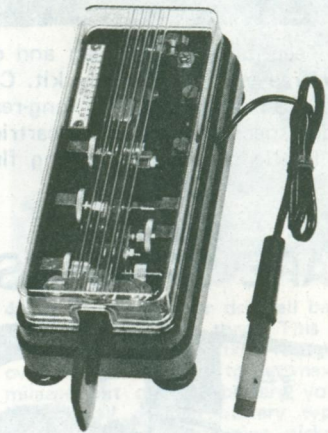


Measures SWR, relative forward and reflected power to 1KW, plus field strength readings.

A handy 2-in-1 meter for use in the amateur radio station to check transmitters for SWR measurements. Can be left continuously in the circuit for monitoring transmitter outputs. SWR: 1:1 to 3:1; Accuracy  $\pm 5$  db, 2 to 30 MHz; Impedance 52 Ohms; Antenna: 5-section, collapsible. Comparative RF field strengths can be easily determined with this fine meter. Sensitive 100 micro-ammeter movement with easy to read 2-color dial. Impedance matches 52 Ohm coaxial lines. Attractive grey hammertone aluminum case. Size:  $1\frac{3}{4}$  W x  $5\frac{1}{16}$  H x  $2\frac{1}{4}$  D. Shipping weight 1 lb.

## Precision Semi-Automatic Bug

No. 4812

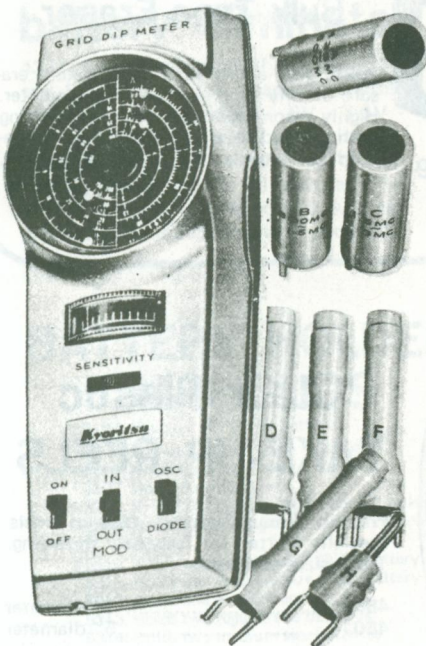


Variable speed key capable of 5 wpm 60 wpm. Key is completely adjustable throughout its range for tension, swing, speed etc. Dots are completely automatic and dashes are manual. Heavy metal base, chrome plated parts, clear plastic dust cover. Complete with 20" lead and standard telegraph plug.

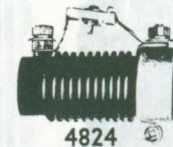
## TRANSISTORIZED GRID-DIP METER

Covers 435 KHz to 220 MHz in eight bands.

- Complete with All Coils
- Precision Vernier Tuning
- Built-in Audio Monitoring Circuit



Model K-126C. Highly sensitive and very accurate instrument for easy coupling in difficult circuits. Sensitive oscillator and detector circuits make it ideal for checking resonant frequencies, detecting stray oscillations, neutralizing, and may also be used as a relative field strength meter. Eight coils supplied covering frequency ranges of 435 KHz to 220 MHz. Each coil coded to match with corresponding scale of calibrated dial. Operates on self-contained 9-volt battery, permitting maximum portability.  $7\frac{1}{4}$ " high x  $2\frac{3}{4}$ " wide x 2" deep. Individually boxed with all coils, instructions and battery.

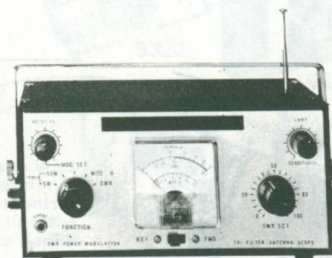


## GENERATOR NOISE FILTER

For amateur and CB, 10, 11, 15, 20 meters. High Q parallel tuned circuit inserted in series with generator armature output. Has trimmer for fine frequency adjustment. Moisture sealed. Instructions included.

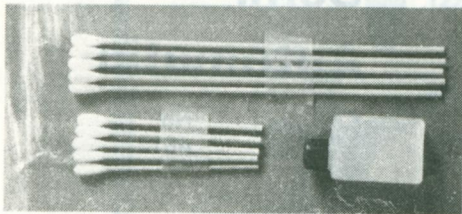
4824

## 611 FIELD STRENGTH, VSWR BRIDGE, POWER METER, MODULATION MONITOR AND ON AIR INDICATOR



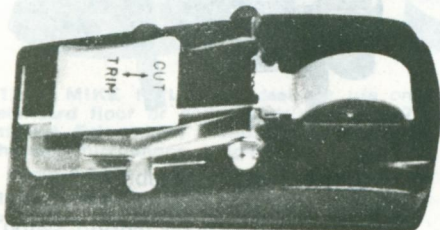
A very sensitive instrument for keeping a complete check on your transmitter performance, and its match to the antenna. The instrument can reassure transmitter output power, modulation percentage, and V.S.W.R. "On the Air" lamp on the front panel illuminates when the transmitter is radiating power yet does not absorb any power in the process. Completely portable with a chrome carrying handle. The unit measures  $4\frac{1}{2}$ " inches high by  $8\frac{3}{4}$ " wide by  $5\frac{1}{2}$ " deep. Specifications: Impedance, 50 ohms; TVI Filter cut-off frequency, 55Mc; Antenna power meter, 0 to 5 watts, 0 to 50 watts; Modulation Percentage, 0 to 100% (AM); VSWR ratio range, 1 to 3 Calibrated, 1 to 10 Uncalibrated.

## Tape Head CLEANER KIT



**4815.** Keep tape heads clean and distortion free with this handy kit. Contains five 3" swabs and five long-reach 6" swabs specially for use on cartridge decks. Bottle of special cleaning fluid included.

## TAPE SPLICERS



**4808.** For standard 1/4" tape, featuring new automatic tape dispenser. Gives clean cut, strong splice and professional trim in seconds. Includes 100" roll of splicing tape.

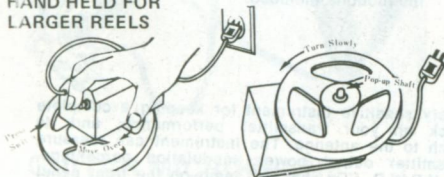
**4809.** Same as above, for cassette tapes.

**4804.** SPLICING TAPE. 100" long x 1/2" wide for above splicers. Same size used in both models.

## HANDY TAPE ERASER



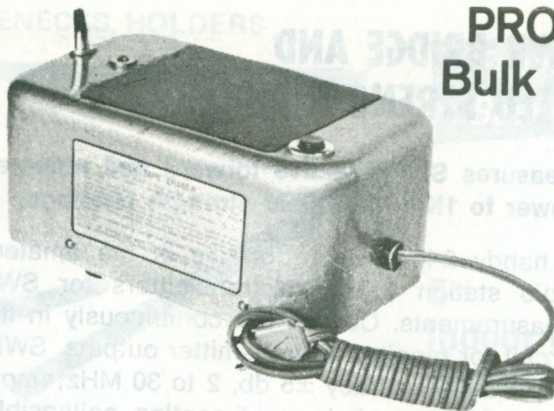
HAND HELD FOR LARGER REELS



PLACE ON POP-UP SHAFT FOR SMALLER REELS

**2028.** This compact hand held eraser takes any size of tape reel on the market, including cassette and cartridge tapes. Operating on 117VAC, this unit has a magnetic strength of approximately 1,000 gauss and efficiently removes all sound and background noise from tapes you want to erase. Complete with built-in on/off switch, line cord and operating instructions. Dimensions: 3"L x 2 1/2"W x 2" deep.

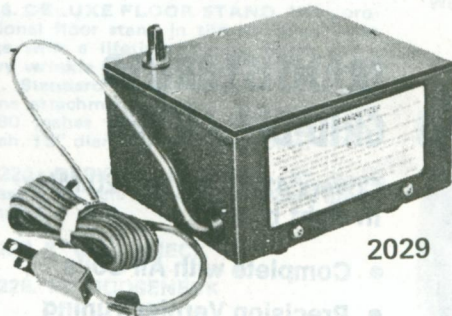
## PROFESSIONAL Bulk Tape Eraser



With push-button switch and pilot light

**2030.** Demagnetizes up to 10 1/2" reel of tape quickly for reuse or storage. Recommended for use before any permanent recording is made because of the necessity of eliminating residual background noise present on any tape. Slowly turn tape reel on spindle three or four times for clean erasing. This unit will also remove magnetism from screwdrivers, pliers or other metal objects. Red signal light indicates when "on." Rated at 117 volts AC, 5 amps. 7" x 4" x 2 1/2" size.

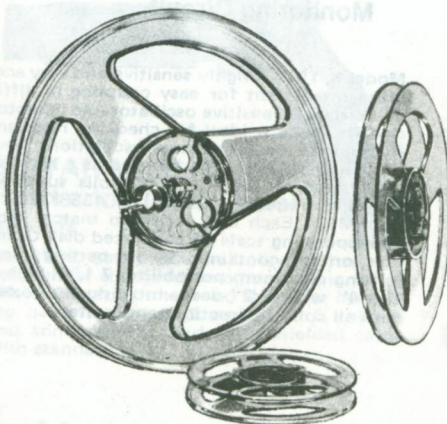
## ECONOMY Bulk Tape Eraser



2029

**2029.** Just a few turn gives instant erasure on any tape up to 7" reel diameter. Highly recommended for home recording enthusiasts. Will also demagnetize household items, tools etc. 117VAC operation.

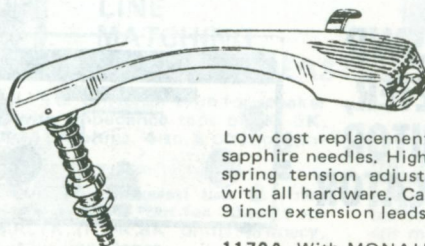
## Clear Plastic TAKE-UP REELS



Precision manufactured take-up reels specially slotted for fast, easy threading. Three sizes available:

4800 ..... 3" diameter  
4801 ..... 5" diameter  
4802 ..... 7" diameter

## TONE ARMS



Low cost replacement tone arms with turn-over cartridge and sapphire needles. High impact plastic arm is 8 inches long, has spring tension adjustment, finger rest and comes complete with all hardware. Cartridge is completely wired, with coded 9 inch extension leads.

**1179A.** With MONAURAL high output crystal cartridge.

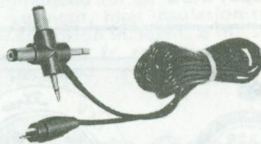
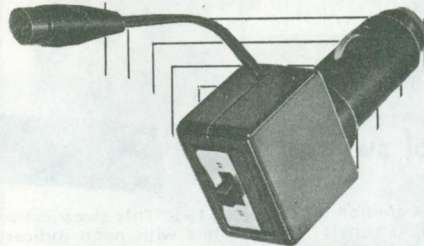
**1179B.** With STEREO high output crystal cartridge.



# Battery Holders - Chargers - Eliminators

## UNIVERSAL auto DC/DC converter

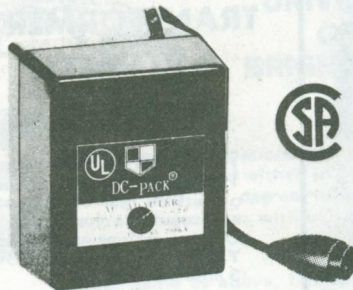
4336. 3-way switch on front of converter gives instant selection of 6 - 7.5 or 9 volts DC for operation of transistorized equipment. Another feature is the polarity-reversing extension cord that supplies voltage either way to the 4-way adapter (see below). 300 ma output.



This polarity reversing extension cable is INCLUDED with both the 4336 converter and the 4321 eliminator. 6 ft. cable with reversing plug on one end to 4-way adapter: 2.5 & 3.5 miniature plugs, 2mm and 2.5mm hollow jacks.

## UNIVERSAL 117vac battery eliminator

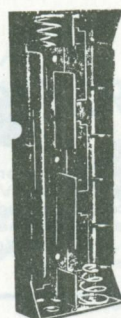
4321. Instant selection of FOUR different DC voltages for operating transistorized equipment: 4.5V - 6V - 7.5V - 9V. Voltage is selected by turning set screw on front of converter to desired reading. 300DCma on all voltages, 117 VAC operation, CSA approved. Adapter cable (above) is supplied with each unit.



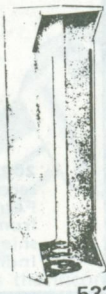
4338. Recharge your dry cell batteries instead of replacing them. This Tenco charger will pay for itself many times over by allowing you to get maximum mileage out of ever battery you use. Handles all popular battery types including regular carbon zinc, nickel cadmium (Nicad), and alkaline cells. Accepts 006P transistor batteries, AA penlight cells, C & D cells and operates on regular 117VAC house current. Delivers 30ma continuous and a neon pilot lite on the front of the housing shows when unit is on and charging. For maximum battery life, batteries should never be allowed to go completely dead. This device will completely recharge batteries in as little as 4 hours. Recommended charging time chart and complete operating instructions included.

## BATTERY HOLDERS AND CLIPS

- 5194. Snap-on clip for 9v battery.
- 5305. Compact design holds 4 penlights.
- 5306. Holds 6 penlight cells.
- 5307. Holds 8 penlight cells.
- 5308. Triangular type, holds 3 penlight cells.
- 5309. Holds four penlight cells, two on each side.
- 5310. Holds one regular size (950) battery.
- 5311. Holds one medium size (935) battery.
- 5312. Holds one penlight cell.
- 5313. Holds two regular size batteries.
- 5314. Holds two medium size batteries.
- 5315. Holds two penlight cells.
- 5316. Holds 4 penlight cells.
- 5320. Accepts standard snap-on clip, and holds two penlight cells.
- 5321. Holds 4 penlight cells, and accepts standard snap-on battery clip.
- 5322. Takes 2 regular size flashlight batteries (D cells.)
- 5323. Holds two regular size D cells.
- 5324. Holds six regular size D cells.
- 5325. Takes six D cells vertically, 3 on each side.
- 5326. Takes six penlight cells vertically, three on front and three on back. Accepts standard snap-on battery clip.
- 5327. Tubular plastic holder. Takes four medium size batteries (C cells).
- 5328. Tubular plastic battery holder for regular size batteries. Takes 4 D cells.



5325



5326



5307



5305-06-07



5308



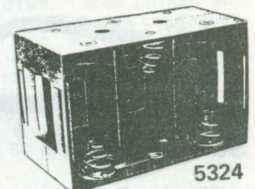
5320



5321



5322



5324



5316



5315



5309



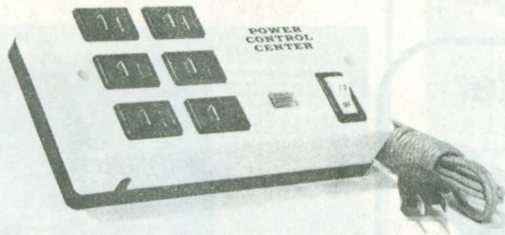
5311-12-13-14-15



5194

5310-11-12-13-14-15

## POWER CONTROL CENTER



### Six outlets with master control switch and neon indicator

4926. Divides one AC power source into SIX, with a common on/off rocker switch controlling all outlets. Amber pilot light signals "on" position. Ideal for multiple unit hookup with countless applications in the home, lab or shop. 6 3/4" long x 3 1/2" wide x 1 1/2" deep. Can be bolted flush to any flat surface.

## Triple Outlet Power Control Box



1191. This electrical switch box has three separately controlled outlets with neon indicator lights on each circuit. Plugs into any 117 vac outlet and mounts on the wall or workbench. Completely enclosed metal box gives maximum protection. Polarized receptacles rated at 5 Amps. 125 Volts AC. 4" x 2 5/8" x 1 1/2".

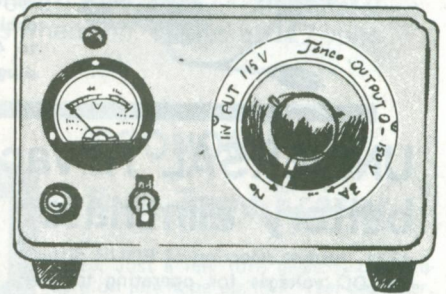
## Regulated POWER SUPPLY



600. Here is a dependable, heavy duty power supply that delivers a regulated 12 volts DC at a current rating of 3 amps. It is primarily designed to operate automotive electronic equipment in the home, but can be used with any 12 volt equipment up to stated current ratings. Has on/off switch, neon indicator light and colour coded binding posts with banana jacks.

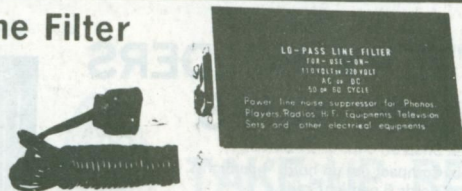
**SPECIFICATIONS:** Input: 117vac; Output: 12vdc; Output current: 3 amps continuous, 5 amps peak; Ripple: 7mv rms; Load fluctuation: within 5%; Weight prox. 6 lbs; Dimensions: 6"L x 4 1/2"D x 3 1/2"H. Line fuse and output heat sinks at back of unit.

## CONTINUOUSLY VARIABLE TRANSFORMER 300 WATT

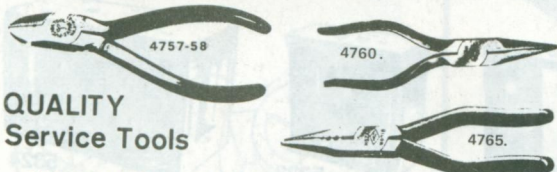


1192. Continuously variable line transformer in metal cabinet with 150 volt AC meter, on and off switch, fuse and pilot light, two AC outlets on rear of cabinet. A highly efficient manual operated voltage regulator furnishing adjustable output voltage from AC line. Current ratings apply over full range of output voltage. **SPECIFICATIONS:** 117vac input; Output: 0-150 volts continuously variable at 3 amps. 60cps.

## Lo-Pass Line Filter



2023. For suppression of electrical interference in phonographs, tape recorders, radios, TV, hi-fi sets and amateur receiving equipment. Ferrite core-type choke for complete elimination of noise induced from the power line. Fully enclosed in metal box for maximum shielding. 110-220 Volts AC, 50-60 cps, 2 1/2" x 4" x 1 1/2" size. Individually boxed.



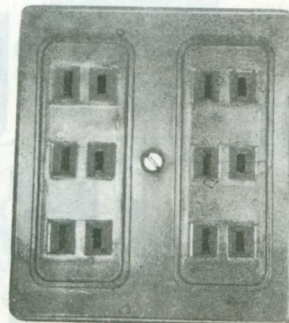
## QUALITY Service Tools

4757. **DIAGONAL 5" SIDECUTTERS.** Drop-forged steel with tempered cutting edge and insul-grip handles. Precision ground for close cutting tolerance.

4758. **DIAGONAL 6" SIDECUTTERS.**

4760. **5" LONG NOSE PLIERS** with insul-grip handles. Quality drop-forged steel.

4765. **5" LONG NOSE WIRE STRIPPERS.** Slender nose, tempered drop forged steel with precision ground cutters on side. Insul-grip handles.



## 6-WAY Table Tap

4925. Convenient 6-way outlet for flush mounting on any flat surface. Strong, positive contacts for long use and hard wear.

**FOUR-WAY TAPOFF.** Inline tap-off with 4 117 vac sockets. Strong, impact resistance plastic case with insulating cover plate on back. Copper-bronze contacts. Flush mounts to any flat surface, hardware included. 4924.

## HEAVY DUTY PVC Electrical Tape



### No. 10133

This hi-dielectric, CSA and UL approved tape is recommended for all work requiring a tape with strength, high insulation resistance and low corrosion incident. 8 mil thickness, 3/4" wide, 66 ft. roll, colour black. Individually packaged.

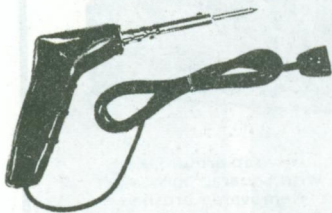


## Top Quality PLASTIC ELECTRICAL TAPE

Strong, flexible plastic electrical tape for dozens of jobs around the home & shop. Excellent adhesion factor and good stretch quality. Available in BLACK only.

2001. 3/4" wide x 35 ft. length  
2003. 3/4" wide x 70 ft. length

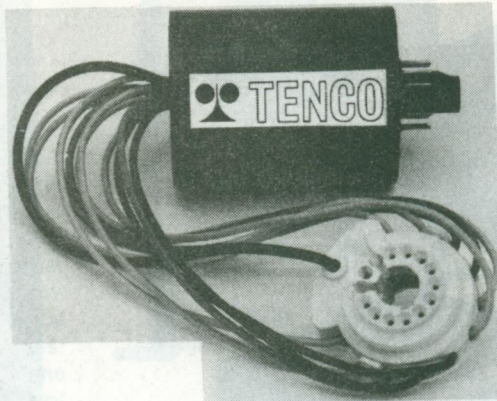
## PISTOL GRIP 30W Soldering Iron



1251. Recommended for printed circuits or work on miniature apparatus. Cool, comfortable pistol grip handle in black phenol. 30 watts, 117vac. 54" vinyl coated cord.

1251-T. Tip for model 1251.  
1251-E. Element for model 1251.

# COLOUR TV Brightener



7003C. Brings back original brightness to colour TV tubes. High insulation ceramic type socket, 6" leads. For use on all 90 degree rectangular tubes, series/parallel circuit.

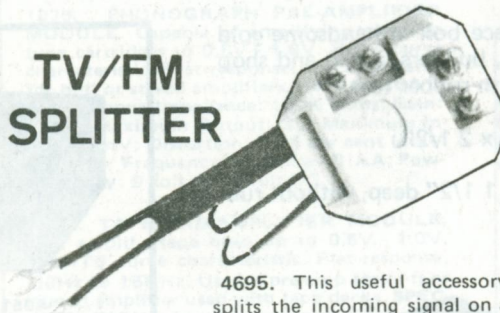


## UNIVERSAL CRT BRIGHTENERS

7001. Electromagnetic/electrostatic RCA type, can be used either in series or in parallel. For 90 degree tubes. Quality Tenco construction with 6" connecting cables.

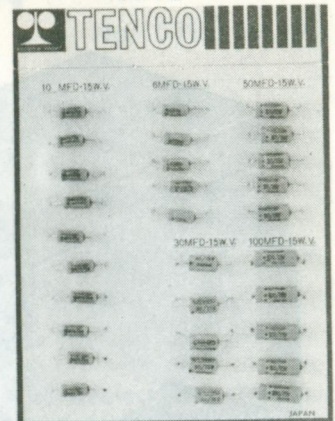
7002. Same as above, but for use with 110 degree tubes.

## TV/FM SPLITTER



4695. This useful accessory splits the incoming signal on a standard 300 ohm TV lead-in and gives 3 different outputs: TV VHF/UHF for colour or black & white, plus an FM output. Use it on cable TV input line, outdoor TV antenna line etc. Compact size, fits on back of set.

## CONDENSER KITS



## 600 VOLT LO-CAP KIT

No. 10128. Top quality oil-filled capacitors in 50 of the most popular values. FIVE EACH: 001; 002; 005; 1mf. TEN EACH: 01; 02; 05 mfd.

## MINIATURE BY-PASS KIT

No. 10162. 50 Tenco miniature by-pass, upright-mtg. For all transistor applications. All are 100 volts working. Mylar-dipped. Kit contains: FIVE .1mf; TEN .01 mfd; FIVE .02 mfd; FIVE .04 mfd; TEN .05 mfd; FIVE .001 mfd; TEN .005 mfd.

## DOUBLE ENDED ELECTROLYTIC KIT

No. 10164. Tenco tiny electrolytic condensers for transistor and all miniature applications. Aluminum tubes with vinyl plastic cover. All are 15 volt working, size 1/4x1/2" to 3/16 x 3/4". Kit contains 5 EACH of following: 6mfd; 30 mfd; 50mfd; 100 mfd., plus TEN 10 mfd.

## SINGLE ENDED ELECTROLYTIC KIT

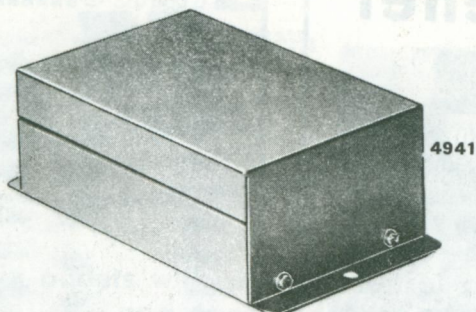
No. 10165. Tenco upright electrolytic miniature condenser kit of the 30 most popular types used in transistor radios, and other applications. All are 15 volts working. Kit contains the following: TEN 10mfd; FIVE 6 mfd; FIVE 30 mfd; FIVE 50 mfd; FIVE 100 mfd.

## NEW! CATV MATCHING TRANSFORMER

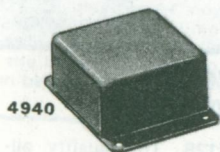
9065. Now you can match the impedance of any CATV co-axial line to the impedance of your TV or FM receiver. Converts 75 ohms CATV output to 300 ohms FM/TV input. All hardware included.



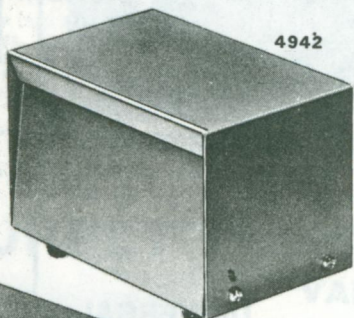
# All Metal Utility Boxes



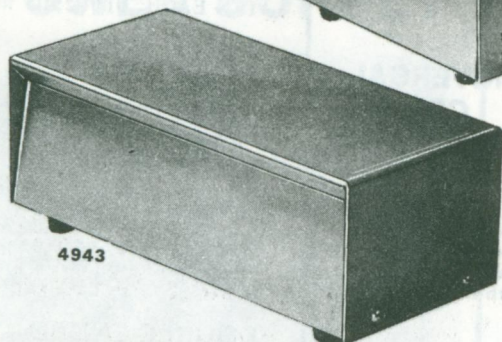
4941



4940



4942



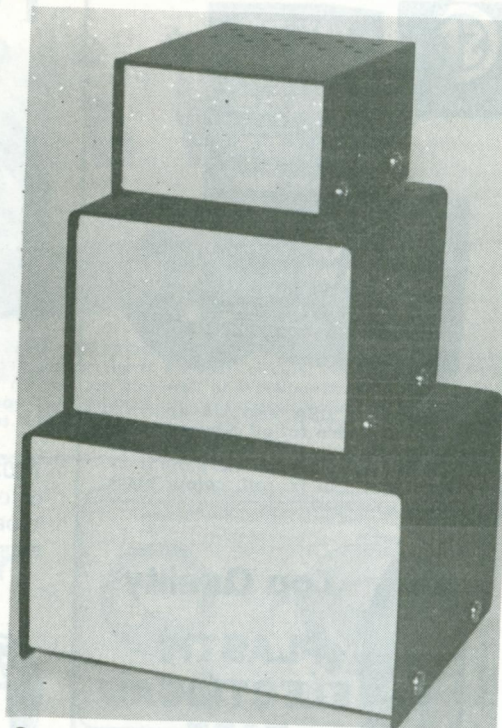
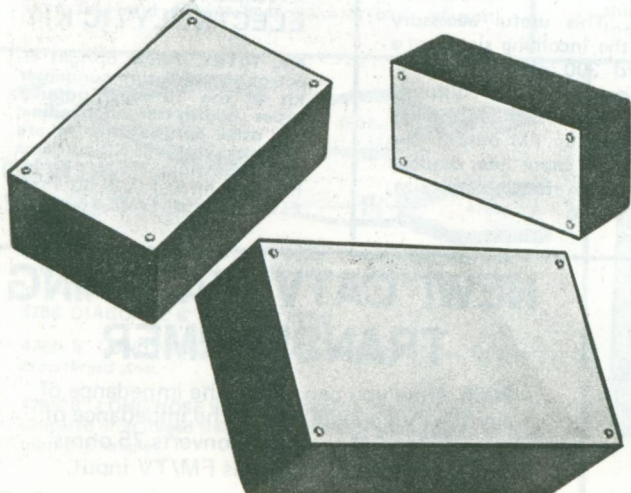
4943

4940. Die-cast metal box in gray laquer finish, 2 inches square x 1 inch deep. With metal base cover.

4943. Completely enclosed two piece box in handsome gold finish. Unlimited use for hobbyists, builders, audio and shop projects. Size: 6" x 3" x 2" deep, with rubber feet.

4942. As above, but 4 1/2" x 2 1/2" x 2 1/2".

4941. As above, but 4" x 2 1/2" x 1 1/2" deep, without rubber feet.



Smart new utility boxes for a wide variety of kit, hobby, experimenter and builder applications. They're all metal 2 piece in charcoal and white baked enamel finish... very professional appearance. Rubber feet on base, vent holes on top.

4954. SMALL. 4" x 3 1/4" x 2 1/4".

4952. MEDIUM. 4 3/8" sq. x 3 1/2" H.

4947. LARGE. 6" x 5" x 4".



4951. Smartly designed wrap around plastic case 1/8" thick with squared corners, deep brown colour. Removable brushed aluminum panel on front, removable metal back plate and chassis plate. Size: 8 5/8" L x 2 1/8" H x 5 1/2" D.

## Black Phenolic Utility Boxes with aluminum tops

Sturdy, compact black plastic cabinets with aluminum tops. Especially suitable for transistorized receivers, code oscillators, decade boxes, frequency devices, meters, and many other applications. Aluminum panel removes for easy access to components.

4944. 7 3/4" L x 4 3/8" W x 2 3/8" D.

4948. 5 1/8" L x 2 5/8" W x 1 5/8" D.

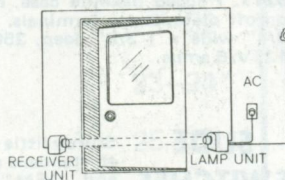
4949. 4" L x 2 5/8" W x 1 5/8" D.

4950. 3 1/4" L x 2 1/8" W x 1 1/8" D.

# Photo Electric Eye Alarm Warning System

No. 575

A compact electric eye for home, office, shop, factory, or warehouse. It has a multitude of applications. Announces entry or departure of unseen persons, protects remote areas from intrusion, guards against theft and pilferage. Can be used in counting and sorting operations, etc. Many possible uses around the home or office. Complete unit consists of transmitter, receiver, buzzer, a comprehensive instruction manual, and mounting hardware.



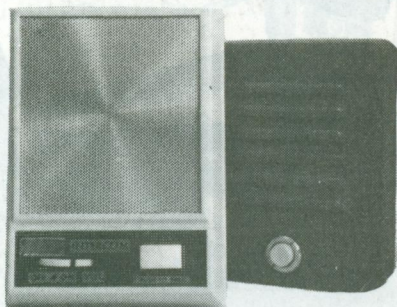
For 117 VAC operation



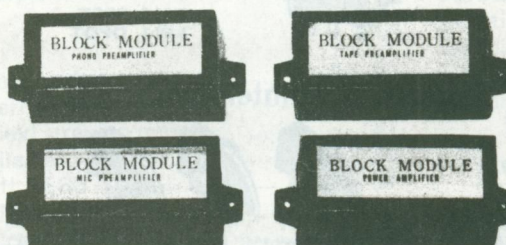
## High Intensity REPLACEMENT BULB No. 89

Long-life replacement bulb for intensity lamps. Is also used in the photo electric light source until of our No. 575 above, as well as similar models. Bayonet, base, same as GE-93 type.

## Home Entrance INTERCOM



**TP-502.** Answer front or back door from any location in your home with this handy device. Weatherproof, all-metal remote station with push-to-talk button is installed at any convenient location outside the door. Master station with all controls is located anywhere you want it in the house. Also very useful for plant or office use. Operates on self-contained 9V battery. Hardware, 65 ft. cable & all instructions included.



## Instant Audio! SOLID STATE Block Modules

Compact modules sealed in rock-hard plastic, ready to hook up. Each module measures only 2 1/2" length x 1 1/4" wide x 7/8" deep. Can be used in pairs for stereo.

**1079. PHONOGRAPH PRE-AMPLIFIER MODULE.** Capable of amplifying magnetic type cartridges to 0.5V - 1.0V. RIAA curve characteristic. Flat response. Use as pre-amp for hi-fi or stereo amplifiers. **SPECIFICATIONS:** Input Impedance: 100K ohms; Gain: 28DB; Maximum Output: 3V; Maximum Input: 50mV; Distortion: 0.15 per cent (at 1V LEVEL); Frequency Response: RIAA; Power Supply: 9 volt to 12 volt DC.

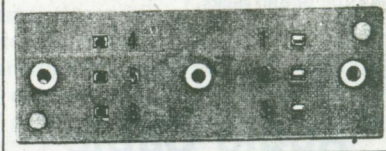
**1080. TAPE PRE-AMPLIFIER MODULE.** Can amplify tape head up to 0.5V - 1.0V. NARTB curve characteristic. Flat response, 30Hz to 15KHz. Uses as pre-amp for hi-fi or stereo amplifier used with tape decks. **SPECIFICATIONS:** Input Impedance: 100K ohms; Gain: 25DB; Maximum Output: 3V; Maximum Input: 50mV; Distortion: 0.15 per cent (at 1V LEVEL); Frequency Response: NARTB; Power Supply: 9 volt to 12 volt DC.

**1081. MICROPHONE PRE-AMPLIFIER MODULE.** Capable of amplifying dynamic type mike from about 0.5V to 1.0V. Can be used with radio or amplifier. **SPECIFICATIONS:** Input Impedance: 100K ohms; Gain: 28DB; Maximum Output: 3V; Maximum Input: 50mV; Distortion: 0.15 per cent (at 1V LEVEL); Frequency Response: 10Hz to 50KHz; Power Supply: 9 volt to 12 volt DC.

**1087. ELECTRONIC ORGAN MODULE.** Tone oscillator specifically designed for use with electric organs. Can be adjusted to raise key pitch as much as 2 1/2 octaves. **SPECIFICATIONS:** Tone Frequency: 200 to 1000 Hz; Output Power: 80mW; Power Supply: 9 volt DC; Current: 15mA.

## Free Mounting Board

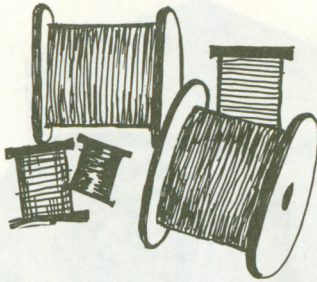
Sturdy mounting board of vinyl-impregnated fiber enables you to easily plug modules in and out of different systems. One included with each module.



**1082. POWER AMPLIFIER MODULE.** Can produce up to 300mW when combined with modules 1079, 1080, or 1081. Use with 8 to 16 ohm speaker. OTL circuit without transformer for excellent sound quality. **SPECIFICATIONS:** Gain: 20DB; Maximum Output: 300mW; Input Impedance: 1,000 ohms; Distortion: 3 per cent (at OUT 200mW LEVEL); Frequency Response: 50Hz to 10,000 Kz; Power Supply: 9 volt DC; Current: NO SIG. 20mA MAX OUT 90mA.

**1089. DUAL FLASHER MODULE.** An electronic switch for alternately flashing two miniature bulbs. Use with any 6 volt, 100 or 200mA bulb. Applications include: warning lights, model cars, attention getters, model railroad crossing lights, etc. **SPECIFICATIONS:** Flasher Time: 1/4 sec.; Power Supply: 6 volt DC; Current: 150mA; Lamp: 6V - 150mA.

## MICROPHONE & LOUDSPEAKER WIRE ON SPOOLS



**988-500.** Extra thin "zip" type wire for all speaker installation work. Stranded 2 conductor with grey vinyl covering. 500 ft. spool

**988-1000.** As above, 1000 ft. spool

**990-500.** As above, clear vinyl covering. 500 ft. spool.

**990-1000.** As above, 1000 ft. spool

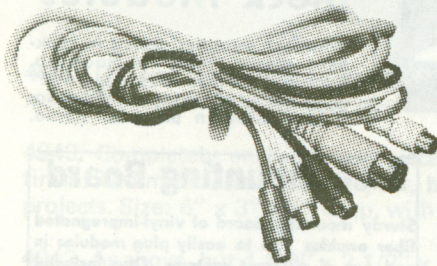
**SHIELDED MICROPHONE CABLE.** 1/8" dia. single conductor with grey vinyl covering.

**981.** 500 ft. spool

**SHIELDED MICROPHONE CABLE.** As above, but heavy duty type 3/16" outside diameter.

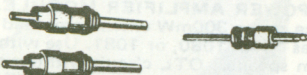
**983-500.** 500 ft. spool

## New DIN Cable



**3332.** 6 ft. cable, 5 pin male DIN plug to 4 RCA type phono jacks.

## NEW Audio Cable

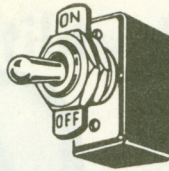


**3206.** Shielded 60" cable for a wide variety of audio uses. Two RCA type phono plugs one end to single 3.5mm miniature plug on other end.



**5112. SOLDERLESS ALLIGATOR CLIP.** Will accommodate standard phone tip plug or can be attached with set screw. Approx. 2" long.

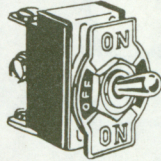
## Bat Handle Toggle Switches



**5215. SPST.** Well designed switch with bakelite case, chrome on-off plate and handle. 1 1/4" high x 5/8" wide x 1" deep, 3/8" bushing. Solder lugs, 125V/3 amps.

**5216.** As above, but DPDT. 3/4" wide.

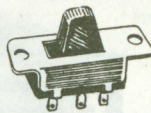
**5218. DPDT,** 250 volt 6 amp rating. 1 3/8" high x 3/4" wide x 1 3/8" deep, chrome plated metal parts, screw terminals.



## Centre-Off Bat Handle Toggle Switch DPDT

**5217.** Rugged bakelite case, red and black on/off plate, screw terminals. 1 3/8" high x 3/4" wide x 1 3/8" deep. 250V/3 amps or 125V/6 amps.

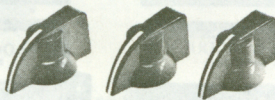
## SLIDE SWITCHES



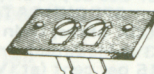
Sturdy little switches for all standard replacement and OEM application. 125 vac 3 amp rating. Black bakelite slide button, tinned lugs. 1 1/8" mounting centres.

**5210. SPST**  
**5211. DPDT**

## Pointer Knobs



**4032.** Standard 1/4" bakelite pointer knobs for 3/4" shaft. Brass insert, white pointer line.



**5137. TERMINAL BOARD.** High insulation bakelite with twin screw terminals. Standard replacement for most TV sets, and many other applications.



**5135. TV INTERLOCK.** Recessed male socket with mounting flange. Fits all standard TV cheater cords.

## Plugs, Jacks and Adapters — bulk items

Midget plug 3.5 mm



2080

Miniature closed circuit jack. 3.5 mm. 1/4" mtg. hole



2086

Shielded Y adaptor



4834

Shielded Y adaptor



4836

Shielded Y adaptor



4837

Inline plug & jack 3.5mm.



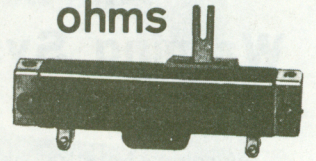
4993



5055

Right angle shielded phone plug

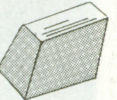
## Slide controls in 3 popular values 10K - 50K - 100K ohms



**TS-302.** Ruggedly designed slide controls for a wide variety of general replacement and OEM applications. Solder lugs on all terminals, threaded end flanges for panel mounting. 2 1/4" L x 7/16" D x 5/16" W.

## Slide control knobs

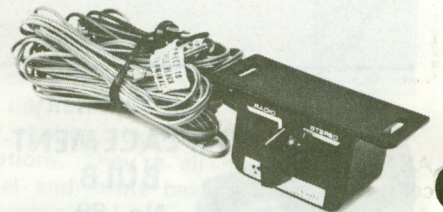
Custom replacement knobs for above controls and other standard types. Prox. 1/2" square x 1/4" wide with 3/16" slotted hole.



**GP-10.** BLACK, with marker

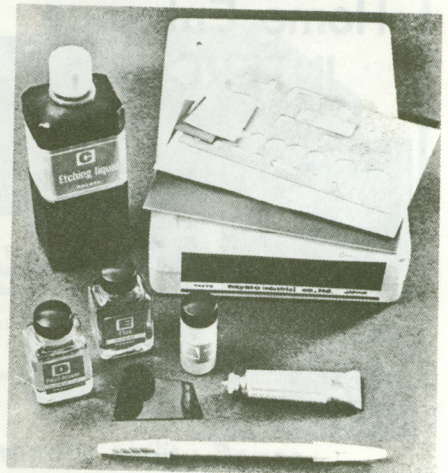
**GP-16.** Silver/chrome finish, plain.

## AUTO RADIO/TAPE SWITCH



**2077.** For switching auto speakers from radio to stereo tape deck. Underdash mount. Includes extensions cables, hardware and installation instructions.

## PRINTED CIRCUIT KIT



**10196.** Everything you need to produce professional printed circuit boards. Complete with detailed instruction manual, 6" x 4" board, template, chemicals and tools. Shipped in sturdy plastic case which also serves as etching tank.

**10197. COPPER BOARD KIT.** Contains 6" x 4" copper covered phenolic board, template and adhesive paper as in our complete kit above.

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**quality  
electronic  
values  
for you**

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 **TENCO**  
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