Friedan Coming To Pay Lib Service

Betty Friedan, author of "The Feminine Mystique," and president of the National Organization for Women, is speaking at 11 a.m. Tuesday in the MAC at Florida Tech's Central Little Theatre.

Mrs. Friedan, who helped organize the women's liberation movement, was born in 1921, and was graduated cumma cum laude from Smith College. She was a student of Gestalt psychologist Kurt Koffka and has held a research fellowship at the University of California in Berkeley. She has assisted in early experiments in group dynamics at the University of Chicago.

Mrs. Friedan wrote "The Feminine Mystique" after five years of research and travel, when she spoke with doctors, psychiatrists, marriage counselors, educators and motivational researchers. She also interviewed women in their homes, and the result was an educational and philosophical treatise which sold 2.5 million copies and was translated into 16 languages.

Friedan's appearance is sponsored by the Village Center Program Director Wanda Russell says Mrs. Friedan's book and thoughts are "well-founded and deep," and she has her subject as an educated and imparted manner. Mrs. Russell also says that Mrs. Friedan has been treated unfairly, since Mrs. Friedan began the movement before women's liberation was considered a topic, and since she is not a member of the main stream of the movement.

In speaking of future development of women's liberation, Mrs. Friedan said that in the States women have still not come inside the mainstream of society, as they do in other countries. She said that she was willing to continue her work as long as she is able.

Congressman Bill Chapman, with an F.T.U. Political Science class about the ways and means of Washington politics. (Photo by Jim Lehmman)
And It Never Gets Old

Dear Editor:

Did you ever wish that you had one thing that sort of digested the year's events, the memorable experiences, your college career? If you haven't, there's probably someone who will. And then there's you. You can plan for that day ahead by purchasing a yearbook. Yearbook sales aren't very high at this point. For some reason the trend is against them. A lot of people have offered a lot of reasons for this downward trend—most of which don't make a lot of sense. A possibility that can be applied for FTU is the never-ending problems that face a commuter-based university. Many students are apathetic toward these problems. That partially explains FTU but it doesn't explain the trend against them. A lot of people have offered a lot of reasons for this trend—most of which don't make a lot of sense.

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The yearbook is the logical end-result of your suggestion to do something you will never regret. Buy a yearbook. They last forever and they never get old.
Afghan Exile
To Rank As
2nd Tech Doc

By Nancy Smith

"I'm very impressed...he's a valuable asset...he's really a nice person...I think the students will probably like him."

These are just two of the comments made by Student Health Service personnel about the new doctor, Mohammed Tahir. The coming of Dr. Tahir now gives the SHS a full-time physician on campus, who is available from 9 am to 5:30 pm. Dr. Edward Stoner, Director of the SHS, will still hold clinical hours from 9:30 to 11:30 am.

Nurse Barbara Klein added "By having a full-time physician on campus, it makes a more workable situation for both students and the Health Service staff."

Dr. Tahir originally comes from Afghanistan, and came to the U.S. when he was 21 to study medicine. He has a brother and sister in Afghanistan that he has only once visited during World War II and left because of politics. He has no desire to return because "I would not let us stay there." He has a brother and sister in Afghanistan that he has not seen for 25 years.

After he came to the States, Dr. Tahir received his pre-med training at Columbia University, New York, and his M.D. degree from the Long Island College of Medicine in 1939. He had a private practice for 24 years and then was on the staff of the Eyegrablin (Ala.) Veterans Administration hospital before he retired to Florida in 1969. However, after a year of not working, Tahir says he got "restless," so he came to FTU to look around the campus, and eventually was hired in the Personnel office, asking if they wanted a doctor. The reply was "Yes!" and Dr. Tahir began working January 1st.

His job is the same as Dr. Stoner's: working as a physician to all full-time students and administering first aid to part-time students, faculty, and staff. Both doctors are also on call through the SHS.

This brings the SHS staff to ten, including two day nurses, one evening nurse, one night nurse, two weekend nurses, two secretaries, and the two doctors.

The latest legal action in the case is an injunction against the owners of the Orlando Sports Stadium, the manager of the stadium, Jim Hayes, and 10 and 17 off-duty Orange County deputies are hired to patrol the areas inside and out. He

FTU's new campus doctor, Mohammed Tahir, relaxes a minute to speak to a FuTUNE reporter about his impressions of America and his new job, which will be to be on campus full time to aid Dr. Stoner. (Photo by Randy Drake.)

And It Came To Pass ----

And it came to pass. Forty in the morning toward the last day of the semester, there arose a great multitude smilling the books and wailing.

And there was much weeping and gnashing of teeth for the day of judgment was at hand, and they were sore afraid, for they had left undone those things which they ought to have done. And they had done those things which they ought not to have done. And there was no help for it.

And there were many abiding in the dorm who had kept watch over their books by night, but it availed them naught.

But some were who rose peacefully. For they had prepared themselves the way and made straight paths of knowledge. And these were known as wise burners of the midnight oil. And to others they were known as "curve raisers."

And the multitude arose and ate a hearty breakfast. And they came unto the appointed place and their hearts were heavy within them.

And they had come to pass, but some to pass out.

And some of them Repented of their riotous living and bemoaned their fate. He was of the debonair smile, and passed papers among them and went his way.

And many and varied Were the answers that were given, for some of his teachings had fallen among fertile minds, while others had fallen flat.

And some there were who wrote for one hour, others for two.

That some came away sorrowful, and many of these offered up a little bull In hopes of pacifying the instructor, and these were the ones who had not a prayer.

And when they finished, They gathered up their belongings and went their way quietly, each in his own direction, and each one vowing unto himself in this manner: "I shall not pass this way again."

---Anonymous

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STADIUM PROBLEM GRAVE
In Eyes of 'Guardians'

NOTICE: ANY PERSON APPREHENDED BREAKING THE LAW IN THIS BUILDING WILL BE ELECTED AND PROSECUTED TO THE FULL EXTENT OF THE LAW. THIS INCLUDES SMOKING OR DRINKING ANY ILLEGAL SUBSTANCE.

The above words, printed for all to see at the entrance of the Orlando Sports Stadium, express the sentiments of both the police and the management of the establishment. There has been a great deal of controversy since June of last year over the actions taking place while rock concerts were in progress on the premises. The latest legal action in the case is an injunction against the owners of the property forcing them to stop hosting rock groups because, it was claimed in the suit, the concerts created a nuisance.

Security measures designed to Stewart illegal acts are constantly being considered and practiced by the management of the stadium, Jim Hayes. In an interview, Hayes said that during the concerts, between 10 and 15 officiating Orange County Sheriff's deputies are hired to patrol the areas inside and out. He

(Continued on Page 13)

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JUMP SUITS

SALE LASTS TILL JAN. 21st
CIGARETTES AT A LOW 4¢

JANUARY 15, 1971
Quickly" Education Rapped by Bolte

By DAVID BRYANT

The next time you are walking around campus, thinking those class, answers that are important to you, four-year university system.

Like, should we shorten the baccalaureate degree, or change the program in some way that would enable us to spend as much real time in school, but still wrap it up in less than four years? How about going year round?

It doesn't seem as far out as it seems, this idea of shortening school, and with just a little investigation, becomes apparent that a lot of people (primarily students) would agree that it does take too long to get a degree. After all, everyone knows that we have to take some courses that are directly not useful, from our majors there is no possible way of connecting the two or more fields.

Not only are we forced to take unnecessary courses, we are sometimes faced with taking courses that, although they may be in our majors, we can not see any need for the future. We are often forced to take the superfluous waste, let us take the usual computer in industry and research coed replied.

"I brush with Crest too." These gentlemen aren't the only people that there are people who want it lengthened, and there are people who want it shortened. But most of all, remember that by shortening school time, the end result would most often be people who could function in certain fields in less than four years, they would probably not be very limited in the awareness of the issues and events of living.

According to Bolte, shortening this necessary time would defect the basic premises upon which our educational system is built. This person is not well suited unless he has a job.

"But I like men the way they are." The recipient of the Edgewood Boys' Ranch Good Samaritan Award is Dr. Charles Unkovic, head of FTU's Sociology Dept. Giving Dr. Unkovic the honors, is Jack Lynd, director of the ranch.

Bolte went on to say that although it would be possible for our system to produce people that could function in certain fields in less than four years, they would probably not be very limited in the awareness of the issues and events of living.

Bolte lamented the fact that not only do we consider the time in schools too short, students today are not considered "well-educated" in mass, science foundations.

Dr. Bolte went on to say that if we had our way the function, and not people who were well-educated. The whole thing is ridiculous. The whole thing is ridiculous. The whole thing is ridiculous.

So, as eternal as the time in school is, why don't we consider the time in schools too short, students today are not considered "well-educated" in mass, science foundations.

Dr. Bolte went on to say that if we had our way the function, and not people who were well-educated. The whole thing is ridiculous. The whole thing is ridiculous. The whole thing is ridiculous.

Bolte went on to point out that there was so much going on in the world today that it is impossible to keep up.

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"I would consider the time in schools too short. Students today are not considere
The bill stated that the two Student Senate which would give the presidents of the colleges: that the senate was wrong in this bill was voted that the members of the Senate was exactly the same. As stated in January 15, 1971 the president and governors are as follows:

- The Senate budgets of organizations that are unnecessary to have two elected suspend officers are Senators Bill Sebastian, Mike Murdock, and Don Hagan, suspended from their positions. There are so many organizations on campus that it did. It might have to be replaced; also; and have had to leave. There are so many organizations on campus and have a two-week appeal period. The suspension of the policies that were written by Craig Morehouse and Bill Castellano will handle the liberal side.

- The conservative is going to speak. When he does, he finds, in the history of Creon in the short period of time, something few other democracies have been able to do. He finds, in the history of Creon, that the conservative has no way of knowing who's been around the block or in power to do. Rock concerts, Santana or Zeppelin or the other hand, committed to revolution, have the most fiasco and the conservative will not be easy, but the alternative is too frightening to think of.

- The risk, then, is counter-reaction to over-reaction. Good men recognize the necessity of realizing that they are in power to do. Rights and the history of Creon, have never said they were. In the short period of time, something few other democracies have been able to do. He finds, in the history of Creon, that the conservative has no way of knowing who's been around the block or in power to do. Rock concerts, Santana or Zeppelin or the other hand, committed to revolution, have the most fiasco and the conservative will not be easy, but the alternative is too frightening to think of.

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East and West Meet in F.T.U Art Exhibit

By GRACE KUEHNER

Objective information concerning the exhibit in the Library Building is offered below. In brief, Lynn Walker, director of libraries, and Dorothy Ramson of the Fine Arts Department deserve recognition and congratulations for their efforts in creating this exhibit. Secondly, the show will run through January 29.

One half of the exhibit is devoted to a display of Seuadorian Art. The second part is a straightforward presentation of amphora, figurines, shell jewelry and coiling utensils made of either clay, wood, sandstone, obsidian or granite. However, among the latter binders and arrow heads a bit of whimsy has crept in, for one statuette clearly portrays an ordinary man kissing another's palm and withering with the usual tongue twister: "Here the elements of art, life and love, constitute the subject matter of this exhibit. It is a photographic display covering the spectrum of objective realities that artists create subjectively from within their own experience.

The FTU Student Chapter of the Association for Computing Machinery will hold its monthly meeting on January 26 at 11:00 a.m. in room EN 359. The featured speaker will be Allen Mills of IBM. He will give a talk on computers in hospital. All participants, members, and family are invited to attend.

Do you know what you are required to do for mathematics numbers quickly? Here you have the chance to pick up Betagen log - log slide rule in the Mechanical Engineering Aerospace Sciences. Student Organization Raffle. The MEAS.

The FTU Art Exhibit will run through January 29. The exhibit is open to the public at the Ramada Inn, 2135 University Avenue. The exhibit will run from Monday, January 18, through January 29.

No. 514 Degas Pastel Pads
Clothbound. White, 14 sheet pads.
9x12" $2.05
11x14" $3.95

The Young Democrats will hold their annual open to the public on Monday, January 18, at the Hilton Inn West. This meeting which is another in a series of "Political Symposia", will begin at 7:30 p.m. The guest speaker will be Senator Frederick B. Karl (D). Karl, a Beach School graduate, now sits as chairman of the Senate Commerce Committee. Senator Karl will speak on "Consumer Protection and Its Importance in Today's Society." At the close of his presentation, the floor will be open to questions from anyone. Also at this meeting will be a representative for the American P.O.W./MIA in North Viet Nam which will show a film and present the silver star to a POW who has applied for assistance.

On Saturday, January 23, the State Executive Committee of the Young Democrats will meet in Jacksonville, Florida. The agenda of the meeting will include the Regional meeting to be held in Atlanta. The committee will be business entertainment and a cocktail party.

If you don't see what you want, ask for it!

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11731 E. Colonial Drive (Near F.T.U.)
OPEN: 11 A.M. 2 A.M.
OPEN: 6 A.M. 10 P.M.
273-1500

FUTURE
January 15, 1971

Area Biology Teachers To Be Taught Ecology

Twenty Orange County high school biology teachers will be selected to attend an Institute of Fresh Water Ecology summer training program at F.T.U. The program, directed by Dr. George E. Allen, Professor of Biological Sciences, will be conducted through their Cooperative College-School Science (CCSS) program.

The Institute of Fresh Water Ecology was established by George E. Allen, professor of biological sciences, to prepare biology teachers for the area of fresh water ecology.

MUSIC COMPETITION

The University of South Florida will again host the Intercollage Music Festival Southeastern Regionals this year in a search for the top talent from colleges within the southeastern region. The competition, to be held April 23 and 24 at South Florida, will select top performers in Pop/Rock and Folk music to compete nationally in St. Louis, Missouri. The University of South Florida invites F.T.U. students to participate in this competition. Further information and entry blanks are available through Wanda Russell, Room 148 in the Career Center. Deadline for entry is February 13.

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5. If you don't see what you want, ask for it!
Some people would define an engineer as a builder of engines and others would think of the railroad as a builder of engines. Paul Wall points out that engineers do not simply build engines and drive trains; they apply (key word) scientific knowledge to better manage resources.

A charter FTU faculty member since September, 1968, Dr. Wall specializes in mechanical engineering, in which he earned a B.S. (1962) from the Institute of Technology and his Ph.D. at the University of South Carolina. Warner highlights of this North Carolinian include four years in the Air Force, membership on the technical staff of Bell Telephone Laboratories, and teaching on the graduate and undergraduate level at General Tech. Before coming to FTU, Dr. Wall used student and field motion to think of ways to control the movement of a solar probe, aircraft, and other vehicles during his three years as administrator and director of Martin Marietta research.

In addition to instructing future engineers, Dr. Wall also serves as chairman of the Student Affairs Committee, and has authored a proposal for an Honors Program in this university's graduate catalog.

Dr. Brown is a Canadian by birth, Professor Ronald Brown of FTU's English department graduated from the University of London. He received a B.A. in English and an M.A. in French from Florida University in Ontario, where he acted in, directed, and evaluated student dramas. (Brown directed Lorre Grose, a Queen's Graduate, in two plays.) More studies followed at the Universities of London, Oxford, and Paris, where he received an M.A. in French.

He came to FTU to develop its creative writing program.

Dr. Brown's two sons, FTU freshmen John and sophomore David, are employees of the Orlando Sentinel. Wife, Emma halls from Nashville and teaches language arts and children's literature in FTU's Elementary Education Department. Their family made its home in Lake of the Woods, Montclair.

Dean Micarelli - "Well, he's an original thinker, a fine individual, outstanding teacher.

Student 2 - "Oh, he's not the same in the street, type, different. He's really different."

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What's Your Problem???

(What's Your Problem will be a weekly column devoted to answering your questions about almost any subject. If you think something needs to be corrected, but feel you can't fight City Hall, ask us, and we will either get action or an answer. Just address all questions to "What's Your Problem?" Faith, P.O. Box 25600, FTU, and either mail them from off campus to the inner-campus mailbox box.

Q - "I understand  through the grapevine that the faculty-staff on the second floor of the Administration Building will not be offering food. Is this true, and if so, why?"

A - ""Hungry Staff"

Q - "According to Auxiliary Services Director Jim Eller, there has been an enormous business generated in the lounge to sustain it. Unless business picks up, the short order cook will be employed. And old foes of coin-gobbling vending machines will which offer the kind of food Mom used to open and defrost, and which you can't fight City Hall, ask us, and we will either get action or an answer. Just address all questions to "What's Your Problem?" Faith, P.O. Box 25600, FTU, and either mail them from off campus to the inner-campus mailbox box.

Q - "Why isn't the balcony on the second floor of the Administration Building ever used? The view from the second floor is beautiful, and it seems as though the space is now unused."

A - "Equal Value and Society, Two Cultures at the Crossroads" is scheduled for February 12 at 7:30 pm. David Eberh, Instructor of Humanities at Seminole Junior College, is the instructor. The course will examine the humanistic and scientific aspects of our society and will explore the breakdown in communication between the two and its historical basis.

Reservations for the week-long course may be made by calling the museum (404-7690) before the deadline for each is $12. There are no prerequisites for the course.

Three enrichment courses will be offered at the Central Florida Museum and Planetarium in February and are open to all interested high school and college students as well as adults. "An Introduction to Astronomy" begins February 3 at 7:30 pm and will be conducted by Ben W. Nichols, Jr., curator of the planetarium. It will review basic concepts of astronomy and its history.

Student 2 - "I'd rather not...

Reporter - "Just one comment?

Student 2 - "No, no..."

Dr. Levenson - "Okay, what do you want to know?"

Reporter - "Well, it's standard procedure to get a very general idea of the student's major interest, and the type of professor: phase of birth, degree earned at that school in that field, career highlights before coming to FTU," feelings about FTU..."

Dr. Levenson - "I was born in Boston and served in the Air Force before I earned a B.A. in philosophy from Boston University in 1939. At Florida State, I was interested in mathematics in 1961, and a Ph.D. in international relations and history. My specialty is medieval historical philosophy, processes and issues..."

Reporter - "Is it difficult to get your students interested in medieval philosophy?"

Dr. Levenson - "Listen, if I understood it better, I probably wouldn't bother with it. Actually, the medieval and modern outlooks are not inconsistent. We are very much interested in organizing and truth, and as new ones. The central theme is a more general notion, and I speak of the university concept, the institution, not specifically FTU. This medieval institution develops the sense of human universality, and I think that does this, there is no significant counterpart in our world. And I must add that in the sense of a classical ideal, FTU the institutions... is not distinct from the world. You're not here... what else, Mr. Ey"?

Reporter - "I could put it at the beginning of the article! (Starts to retrace your steps in the hallway of your time, sir.) Do you have anything... oh, the way, your first name and middle initial?"

Dr. Levenson - "Stephan B."

Reporter - "Oh, and this is the Humanities Department. Thank you..."

Dr. Levenson - "You're welcome, come again!"
John Sper, ATO Fraternity treasure, drives in for a spirited layup during the frat's marathon game last week against all comers. ATO won the game with the home team running into the thousands. Ten cents was given to the CF Telephone for each point scored in the game. The contribution totaled more than $300.

will be held next week.

Fidelis are still working for “Green Stamps for a Greenhouse,” a project which aims to collect enough green stamps to buy a greenhouse for the university. The greenhouses will be turned over to the Garden Club of Natural Science to be cultivated for Biological and Geological studies. The greenhouses will be given to the university at the end of the week, and the proceeds will go to the CF Telephone.

During Christmas vacation Fidelis held a Christmas party where sisters and pledges exchanged gifts. Also Fidelis were guests of honor at a social given by Orlando Panhellenic representatives. National sorority members from various Florida colleges hospital vacation were also on hand to answer the many questions that came up about national sorority.
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"SUPERMARKET STYLE" AT
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STUDIO QUALITY MICROPHONE

Dyanmic, Omni-Directional

Excellent tone quality, for voice and music uses on stage, recording, broadcasting, public address systems, etc. Beautifully styled satin chrome housing of die cast metal. Built-in on/off switch. Swivel mount. 20 foot cable with connector included.

SPECIFICATIONS

Frequency Response: 80 to 12K Hz.
Output: -58 db
Impedance: 50k ohm
Cat. No. Q4-150 $17.95 Net

BROADCAST QUALITY MICROPHONE

Dynamic, Omni-Directional

For highest fidelity recording of voice or music. Unequaled at virtually any price! Omni-directional for perfect pickup of groups, bands, audience, etc. Gives real "presence" to tape recording. Exquisitely styled black finish with satin gold trim. Cast metal housing with swivel. On/off switch built into mike stand connector. 20 foot cable with connector included.

SPECIFICATIONS

Frequency Response: 50-14K Hz (virtually FLAT from 100 to 8K Hz).
Output: -56 db
Impedance: 50k ohm
Cat. No. Q4-154 $18.95 Net

PROFESSIONAL ENTERTAINER & SPEAKER MICROPHONES

RECORDING, BROADCAST AND P.A. MICROPHONES for soloists, announcers, entertainers and public speakers. Wide, flat frequency response puts these mikes in the truly professional class. Built-in "pop" and wind noise barriers. Special swivel holder permits easy shift from stand to stand. Built-in on/off switch.

OMNI-DIRECTIONAL DYNAMIC TYPE

Exceptional "life like" sound reproduction. Light, slim, and finished in beautiful satin silver.

SPECIFICATIONS:

Frequency Response: 85-13,000 Hz
Impedance: Dual-200/500 k ohm
Output: Low imp.: -66 db; High imp.: -52 db
Accessories: Swivel holder and 15 ft. cable.
Cat. No. Q4-157 $19.95 Net

CARDIO TYPe, DYNAMIC

Minimizes pickup from back and sides. Reduces feedback problems and extraneous noise. One of the finest cardio type microphones at any price.

SPECIFICATIONS:

Frequency Response: 50 to 13K Hz.
Output: -58 db
Impedance: 50k ohm
Accessories: 10 foot cord with connector, lavallier strap
Cat. No. Q4-162 $23.95 Net

TAPE RECORDER REPLACEMENT MICROPHONE

Cat. No. Q4-186 $3.95 Net

TIE CLASP MICROPHONE

Tiny "secret" magnetic microphone to record, transmit, or amplify voice without being ob­vious. Manual on microphone. Magnetic connects to amplifier: $1.25; 2 outputs: $2.50. Includes: Amplifier, microphone, 3 foot cord with connector.
Cat. No. Q4-184 $3.95 Net

MICROPHONE STANDS

Modern style desk stand for all mikes. Non-tip cast base, black finish, chrome 5" shaft, 1/4 x 27 thread.
Cat. No. Z2-020 $8.95 Net

GUITAR MICROPHONE

Now you can convert guitars, banjos, mandolins, ukes, etc., into musical instruments for amplified sound. Excellent response and sensitivity. High imped­ance. Clamps on with­out tools. Built in volume control. Connects to amplifiers, recorders, etc.
Cat. No. Q4-196 $6.65 Net

STUDIO QUALITY MICROPHONE

REPLACEMENT

Versatile, High Fidelity, Omni-Directional for effects, communications, paging, etc. Impedance: 50k ohm; Output: 56 dB; Frequency Response: 100-9000 Hz.

Cat. No. Q4-184 $4.95 Net

LAPLE MICROPHONE

Popular all purpose high impedance crystal mike for hobbyists, experimenters, student, half" diameter—gold finish mini­phone plug. Impedance: 85k ohm; Output: 6000; $1.25 Net
Cat. No. Q4-189 $11.90 Net

MUSICAL INSTRUMENT CONTACT MICROPHONE

Cips on guitars, violins, cellos, ukes, mandolins, etc. Play the instrument through your amplifier, radio, recorder, etc. Built in volume control. High impedance.
Cat. No. Q4-194 $3.25 Net

TELEPHONE PICKUP

With this amazing device you can record or amplify both sides of phone conversations. No wire connections to phone. No suction cup attaches to receiver. Miniature phone plug connects to amplifier or recorder.
Cat. No. Q4-199 $1.00 Net

TWO WIRELESS STATION INTERCOM

Just plug into any electrical outlet and talk. No installation — no wires. Completely portable, it's ideal for use between kitchen, workshop, basement or in offices, warehouses, etc. Attractive "keyboard" push buttons with locking feature for baby monitoring, or dictation. Expand system anytime with additional units.

MINIATURE DYNAMIC MICROPHONE

VERSATILE, HIGH FIDELITY, OMNI-DIRECTIONAL for tape recorders, communications, paging, etc. Impedance: 50k ohm; Output: 56 dB; Frequency Response: 100-9000 Hz.

Cat. No. Q4-184 $4.95 Net
SPEECH MICROPHONE

Crystal Type, High Impedance

Here is an inexpensive "all purpose" mike—complete with three attachments: 1) Desk Stand (not shown in picture); 2) Floor stand adaptor with swivel adjustment; 3) Lavaliere cord with holder. Excellent for all speech uses from P.A. systems to tape recording. Brushed satin finish metal housing. 4½ foot cord with miniature phone plug. Features built-in on/off push switch that locks in place when desired.

SPECIFICATIONS

Frequency Response: 60-9kHz.
Output: -95 dB.
Cat. No. Q4-147 $5.95 Net

COMMUNICATION MICROPHONE

Dynamic, High Impedance

Developed for use by "hams", citizen band base station, and general paging needs. Features desk stand with rocker type on/off switch. Flexible 6" gooseneck. Excellent acoustical qualities especially for voice.

SPECIFICATIONS

Frequency Response: 100 to 8kHz.
Output: -58 dB.
Impedance: 50 ohm.
Accessories: 4½ foot cord with min. phone plug.
Cat. No. Q4-148 $5.90 Net

ALL PURPOSE MICROPHONE

Cardioid Dynamic - Hi Fidelity

Compact in size—outstanding in performance for recording, announcing, paging, P.A., etc. Cardioid directional sound pattern minimizes sounds coming in from back and sides. Adjustable desk stand.

SPECIFICATIONS

Frequency Response: 60 to 12kHz.
Output: -60 dB.
Impedance: 50 ohm.
Accessories: 6 foot cord with miniature phone plug.
Cat. No. Q4-145 $12.00 Net

LAVALIER MICROPHONE

Dynamic, Hi Fidelity

Lightweight, compact, rugged construction. Perfect for public speakers, interviews, sales demonstrations, etc. A professional instrument with excellent frequency response assuring life-like speech and music reproduction. Use as hand held mike or with neck strap (supplied).

SPECIFICATIONS

Frequency Response: 100 to 15kHz.
Output: -59 dB.
Impedance: 50 ohm.
Accessories: 4½ foot cord with miniature phone plug.
Cat. No. Q4-142 $7.95 Net

TAPE RECORDER MICROPHONE

Dynamic, Low Impedance, Remote Control

Outstanding performance on music and speech considering the price. For the recording enthusiast who wishes to improve the quality of his low or medium priced tape recorder. Low impedance matches late models (solid state) recorders. Removable desk stand: 4½ foot cord has dual plugs that fit most makes and models.

SPECIFICATIONS

Frequency Response: 100-9kHz.
Output: -77 dB.
Net
Cat. No. Q4-146 $4.95 Net

STEREO HEADPHONE EXTENSION CORD

Enjoy listening from your favorite chair. Just plug in and have freedom of movement. 20'A long. Standard 3 conductor plug and jack at ends. For greater length use 2 or more cords.

Cat. No. Q4-278 $3.75 Net

STEREO HEADPHONE JUNCTION BOX

For connecting stereo phones to amplifiers which are not equipped with a phone jack. Easily attached. Built in circuit to prevent overload. Has switch to select between phone only, speakers only, or both.

Cat. No. Q4-226 $4.95 Net

STEREO HEADPHONE

Budget priced—but what remarkable performance. And it's really comfortable, with dual headband, soft rubber cushions, and adjustable earpieces. Weighs only 10 oz, and has a frequency range from 20 to 15,000 cycles. Connects to all standard amplifier outputs from 4 to 16 ohm. Cord is 5 ft. long with stereo plug.

Cat. No. Q4-130 $9.95 Net

HIGH FIDELITY STEREO PHONE

Superb performance—like listening to a $500 speaker system. Extremely comfortable, soft sponge rubber cushions and fully adjustable headbands. Frequency range from below 20 to 20,000 cycles. Connects to amplifier outputs from 4 to 16 ohm. 6½' extra flexible cord with stereo plug.

Cat. No. Q4-131 $13.75 Net

VARIABLE BALANCE STEREO PHONE

The ultimate in comfort and sound reproduction. Equal to the finest headsets available. Unique "Sound Level" control on each earpiece permits adjustment to your own tonal preference and balance. Frequency range: 20 to above 20,000 cycles. 6½' cord with stereo plug. Impedance 4 to 16 ohms.

Cat. No. Q4-132 $17.95 Net

SUB MINIATURE RELAYS

The ideal relay for R/C model planes, cars or boats—whenever an ultra compact, extra sensitive relay is required. Contacts: SPST-3A.

Cat. No. Q4-130 DC $1.75 Net

SMALL PRECISION RELAYS

Exceptionally small. Suitable for almost any application that requires sensitive, long life operation. For general purpose or "wherever an ultra compact, extra sensitive relay is required.

Cat. No. Q4-131 DC $1.76 Net

POWER RELAY

For switching heavy loads such as motors, power supplies, etc. Cylindrical, 2 pole; 30amp. Operating range: 117V AC-DC; 24V DC; 500 cycles. Size: 1½" long; 1 wide; 1¾" high.

Cat. No. Q4-132 DC $1.79 Net
“FOLDED DIPOLE” INDOOR FM RADIO ANTENNA

Improve 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.

Cat. No. N4-013
$1.79 Net

TV AUDIO REMOTE CONTROL

Switch off TV sound from across the room — picture stays on! Tune out commercials — turn off the sound for conversation and phone calls. Easy to hook up. 15 ft. cable included.

Cat. No. N4-015
$1.45 Net

AUTOMATIC TIMER

ON-OFF SWITCH

Set for any time — up to 60 minutes — and your radio, TV, hi-fi, lamp, fan, etc., will shut off automatically. Convenient 12 ft. cord permits remote on-off operation. No installation — just plug in. Rated 115 V AC-600 W max.

Cat. No. N4-005
$7.45 Net

REMOTE SWITCH CORD

Why get up from your easy chair, or get out of bed to turn your TV, radio, hi-fi, or other electrical device on or off? This 15 ft. remote control switch cord just plugs in. Completely safe. U.L. Approved.

Cat. No. N4-028
$1.98 Net

TV INTERFERENCE FILTER

ANTENNA “BAND PASS” FILTER

For the elimination or reduction of interference caused by airplanes, CB and “hams,” automobiles, electro-medical equipment, etc. Connects between set and antenna lead-in wire.

Cat. No. N4-019
$1.49 Net

AUTOMOBILE TRANSVERTER

USE YOUR AUTO OR BOAT BATTERY TO POWER YOUR BATTERY RADIO, SMALL CB RADIOS, ETC. SAVES BATTERIES

Just plug this transverter into the cigarette lighter receptacle and connect to your equipment. Zener Diode regulator keeps voltage at proper level. Adaptor with alligator clips included.

Price 65¢

Cat. No. N4-032
12 14 6 100 mA $2.99
Cat. No. N4-033
12 14 9 100 mA $2.99
REMOTE CONTROL EXTENSION SPEAKER FOR TV OR RADIO

One of the greatest "convenience items" ever designed. A real blessing for families with children. Combines the advantage of remote volume control with those of an extension speaker. You can control your volume and you can switch the main speaker or on off by remote control. Allows you to plug in and control an earphone or pillow speaker for complete privacy. A blessing for the hard-of-hearing and invalid.

Twenty foot cable readily reaches your easy chair—your bed—or even your porch or patio.

Cat. No. N4-009 Net $6.90

PRIVATE SOUND FOR SILENT TV VIEWING

Listen to TV or radio without disturbing others. Ideal for children, "lets show" listeners, invalids, and the hard-of-hearing.

Attachments to any set. The small control unit has jacks for 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.

Cat. No. N4-014 Net $3.95

TONE ARM MONOAURAL

A low cost general replacement Tone Arm of good quality, with simple sapphire needle for 33-45 RPM phonographs. Output 3 Volt Arm rest included.

$0.287 $2.25 Net

CARTRIDGE TYPE MONOAURAL

Universal Replacement Arms with turnover cartridge and sapphire needles. Arm Rest included.

$2.288 Mono $2.75 $2.289 Stereo $3.25 $2.90

INTERCHANGEABILITY CHART

Use this table to find replacement for domestic or foreign lamp sizes.

<table>
<thead>
<tr>
<th>Lamp</th>
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<tr>
<td>6</td>
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<td>8</td>
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<tr>
<td>9</td>
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</tbody>
</table>

BATTERY SAVING ADAPTOR

Operate your battery type electronic equipment from your 3/15 volt AC RADIATION SYSTEM—And save your batteries. You also have the advantage of full power all the time. Measures with standard battery will be noticeably weaker with use and with time.

RADIO TYPE ADAPTORS

Similar to the radio adapters listed above, but designed to provide sufficient power to operate most tape recorders, battery operated radios, and other battery operated electronic equipment. All these adapters are not used without the power source. Some current ratings vary slightly, but only exact duplicate replacements should be used if the original lamp is wired in series with the lamp in the original lamp. Where indicated by an asterisk (*) both mean, size and color may vary.

RECORDER TYPE ADAPTORS

Similar to the radio adapters listed above, but designed to provide sufficient power to operate most tape recorders, battery operated radios, and other battery operated electronic equipment. All these adapters are not used without the power source. Some current ratings vary slightly, but only exact duplicate replacements should be used if the original lamp is wired in series with the lamp in the original lamp. Where indicated by an asterisk (*) both mean, size and color may vary.

MONOAURAL 33/45 PHONOGRAPH CARTRIDGE

Single screw front mounting. Replacement for many small phonographs. Saphire stylus; output 3 1/2 volt.

$2.294 $1.49 Net

MONOAURAL 33/45/78 PHONOGRAPH CARTRIDGE

Universal replacement for certain models of VM, BSR, Stereomatic, Collo. etc. Two sapphire needles; output 2.2 volt.

$2.995 $1.95 Net

STEREO—ALL SPEED PHONOGRAPH CARTRIDGE

Universal replacement for use with all types of all speed phonographs. Includes needles, 1 1/2 volt.

$2.995 $2.75 Net

STEREO—ALL SPEED PHONOGRAPH CARTRIDGE

Flip stem style. Universal replacement for use with all types of all speed phonographs. Includes needles, 1 1/2 volt.

$2.995 $2.75 Net

CRYSTAL EARPHONE

Popular with experimenters and hobbyists. Very sensitive. May be used as microphone or broadcast earphone. High impedance. With cord and mini plug (3 1/8"mm) plug.

$9.313 $5.99 Net

PILLOW SPEAKER

Enjoy listening without disturbing others. Excellent sound. With mini phone plug to fit most transistor radios. Dynamic type 8 ohm impedance.

N4-042 $2.95 Net
SPAKER CONTROLS

CABINET MOUNTING TYPE. "L." Pad circuit with power handling capacity of 10 watt peak audio. For use with B-16 ohm speakers. Long threaded shaft permits installation in cabinets up to 1" thick. Single hole mounting. Supplied with knob and beautiful gold etched dial plate. Solder terminals.

Cat. No. 52·175 Fig. A Single "L." Pad $1.95 Net
Cat. No. 52·176 Fig. B Stereo "L." Pad $3.75 Net

WALL MOUNTING TYPE. Same circuit and electrical specification as Cabinet Type shown above, but mounted on elegant brushed gold plate which fits standard electrical outlet box. Can also be mounted flush in any wall opening of 2 1/2" x 2 1/2" Screw terminals.

Cat. No. 52-179 Fig. C Single "L." Pad $2.95 Net
Cat. No. 52-180 Fig. C Stereo "L." Pad $4.98 Net

SMALL POTENTIOMETER TYPE. Designed for use with extension speakers, low-level background music systems, intercoms, etc. Single hole mounting. Fits panels up to 3/16" thick. Supplied with knob and smart looking etched gold dial plate 2 1/8" square. Designed for speakers from 3 to 15 ohm impedance; max. power: 3 watt audio.

Cat. No. 52-184 Fig. D $1.15 Net

SPEAKER "FADE" CONTROL. A potentiometer control similar to the one listed above, but controls 2 speakers simultaneously. By turning the knob, volume of one speaker increases gradually while diminishing on the second speaker. In center position, both speakers have equal volume.

Cat. No. 52-185 Fig. D $1.15 Net

SPEAKER SWITCH
Designed for use with two speakers such as the one in the equipment, plus a remote or two remotes. 3-position switch connects one or the other or both speakers simultaneously. Supplied with 2 1/4" square etched gold dial plate, knob, and mounting hardware.

Cat. No. 52-186 Fig. D $3.99 Net

Y' ADAPTOR. One end phono pin plug; other end 2 phono pin jacks.
Cat. No. Q4·289 $1.05 Net

Y" ADAPTOR. Two 2 1/8" phone plugs.
Cat. No. Q4·290 $1.05 Net

STD. 1/4" phone plug one end; other end min. (3/16 mm) phone jack. Adapts cord with min. phone plug to input designed for a std. 1/4" phone plug.
Cat. No. Q4·252 $ .85 Net

Y" ADAPTOR. One end phono pin jack; other end 2 phono pin plugs.
Cat. No. Q4·288 $ .99 Net

TAPE SPICER
Clean, permanent splices in seconds. Keeps tape in perfect alignment. True professional splices. "Curly cord." Can be used with all kinds of tape. Leaves slight film of lubricant to prevent tape squeal. Just dip cotton swab (several included) in cleaner, rub against tape heads, guides, etc., and re-store tail end.
Cat. No. Q4·236 $ .65 Net

TAPE RECORDER AND PLAYER MAINTENANCE KIT
Contains everything to clean and lubricate heads, guides and cashettes. Indispensable for professional use. Includes Tower's best conventional tape recorders, auto and cassette units, video tape recorders and any other equipment using magnetic tape.
Cat. No. Q4·229 $2.23 Net

TAPE HEAD CLEANER
A special formula cleaner-lubricant which quickly dissolves accumulated oxide deposits on tape heads, guides, etc. Removes even the most stubborn deposits on tape heads. Leaves light film of lubricant to prevent tape squeal. Just dip cotton swab (several included) in cleaner, rub against tape heads, guides, etc., and re-store tail end.
Cat. No. Q4·236 $ .65 Net
PRINTED CIRCUIT BOARDS
Copper clad phenolic boards for making printed (etched) circuits in the lab, school, or home workshops. The punched (perforated) board has 1/16" holes spaced approx. 3/16".

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
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<tbody>
<tr>
<td>J4-604</td>
<td>4&quot; x 6&quot; (unpunched)</td>
<td>$.59</td>
</tr>
<tr>
<td>J4-605</td>
<td>4 1/8&quot; x 6&quot; (punched)</td>
<td>$.98</td>
</tr>
<tr>
<td>J4-608</td>
<td>Assortment of unpunched boards</td>
<td>$.95</td>
</tr>
</tbody>
</table>

PERFORATED PLASTIC CIRCUIT BOARDS
Uncutted for prototypes, breadboards, hobby or science projects. Made of tough milapixphen (with clean punched holes).

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<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
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<tbody>
<tr>
<td>J4-612</td>
<td>3&quot; x 4&quot;</td>
<td>$.55</td>
</tr>
<tr>
<td>J4-614</td>
<td>2&quot; x 8&quot;</td>
<td>$.65</td>
</tr>
<tr>
<td>J4-616</td>
<td>4&quot; x 8&quot;</td>
<td>$.99</td>
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</tbody>
</table>

PRINTED CIRCUIT KIT
A complete assortment of all materials needed for producing really professional printed (etched) circuits — without prior experience or special skill. Kit contains 4 1/4" x 3", 4 1/4" x 2", and 2 1/4" x 3" (3) copper clad boards, etching solution, etch resist lacquer, layout strips and circles, polishing pad, and burnishing tool. With instruction manual and plastic case which serves as etching tank.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
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<tr>
<td>J4-659</td>
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<td>$3.75</td>
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</table>

BREADBOARD TERMINALS (Solderless)
For experimental circuits, where quick connecting and disconnecting of components is desirable. Press-fit in perforated circuit boards.

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<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
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<tr>
<td>J4-634</td>
<td>$1.05 .99</td>
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</table>

BREADBOARD TERMINALS (Solder Type)
Push-in terminals for all standard perforated circuit boards with 0.035" holes. Easy to solder.

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<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
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<tbody>
<tr>
<td>J4-636</td>
<td>Pkg. of 10</td>
<td>$.29</td>
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</table>

ETCH RESIST LACQUER
Fast drying, easy to apply lacquer to draw the circuit on the P.C. Board. Supplied with small brush attached to bottle cap.

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<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>J4-624</td>
<td>6 oz.</td>
<td>$1.19</td>
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</tbody>
</table>

CIRCUIT BOARD SUPPORT BRACKETS
For professional breadboarding. Provides clearance for wires, terminals, and components. Sturdy aluminum, 1" x 8" with mounting holes.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4-632</td>
<td>Pkg. of 2</td>
<td>$1.75</td>
</tr>
</tbody>
</table>

P.C. LAYOUT STRIPS AND CIRCLES
Etch resist, pressure sensitive strips, 1/16" and 1/8" wide and 3 1/16" circles. For neat, professional layout of etched wiring.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>40&quot;</th>
<th>100&quot;</th>
<th>Net</th>
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<tr>
<td>J4-620</td>
<td>$1.99</td>
<td>$1.19</td>
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</table>

P.C. ETCH SOLUTION
Fast acting ferric chloride solution to dissolve copper layer on boards and easy to use. Sufficient for about 100 sq. inches.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>J4-628</td>
<td>6 oz.</td>
<td>$1.19</td>
</tr>
</tbody>
</table>

PRINTED CIRCUIT DESIGN
EXPERIMENTER’S CIRCUIT BOARD KIT
Contains a 3 1/4" x 4" perforated board, 15 terminals (No. J4-636) and 4 rubber feet with mounting screws. Just the thing to build small circuits. For Radio, TV and experimental electronics.

| Cat. No. | J4-660 | 5.98 Net |

BREADBOARD BRACKETS
For attaching sockets, switches, controls, meters, jacks, etc., to circuit boards.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>10&quot;</th>
<th>10 1/4&quot;</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4-644</td>
<td>$3.25</td>
<td>$3.17</td>
<td></td>
</tr>
</tbody>
</table>

BUS STRIP
To provide a common ground across a circuit board. Punched to line up with perforations. Made of tinned brass.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>2 1/2&quot;</th>
<th>1 1/2&quot;</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4-647</td>
<td>$.29</td>
<td>$.25</td>
<td></td>
</tr>
</tbody>
</table>

SHEET METAL SCREW ASSORTMENT
Popular sizes used in radio, TV and experimental electronics. All are pointed, hardened, and have slotted hex head. Sizes: 4 x 5/8" — 6 x 7/16", 5 x 3/16" — 8 x 1/2".

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4-833</td>
<td>2 5/6&quot;</td>
<td>$.99 Net</td>
</tr>
</tbody>
</table>

GROMMET ASSORTMENT
Generous assortment of the four most popular sizes used in electronic assembly. Made of soft, non-hardening vinyl plastic.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4-841</td>
<td>5/8&quot;</td>
<td>$.99 Net</td>
</tr>
</tbody>
</table>

TERMINAL LUG ASSORTMENT
A selection of solder and crimp type terminals for various wire and screw sizes. One of the handiest items in the lab or workshop.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4-844</td>
<td>1 1/2&quot;</td>
<td>$1.12 Net</td>
</tr>
</tbody>
</table>

SPACER ASSORTMENT
Contains various length of metal and insulated spacers to fit No. 4 and 6 screws. Indispensable for construction projects, breadboard and experimental circuits or prototype work.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Assortment</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4-946</td>
<td>Assortment</td>
<td>$.99 Net</td>
</tr>
</tbody>
</table>
PUSH BUTTON SWITCHES
MINIATURE SWITCHES: Ideal for all electronic or electrical equipment requiring reliable, extra small switches. Rated at 100V-1 amp.

Cat. No. E2-140 $0.59 Net

B MOMENTARY CONTACT, SPST: for circuits requiring "transfer" or "normally closed" style. Overall length: 11/16"; Diam.: 5/32"; Bushing: 1/4" diam., 1/4" long.
Cat. No. E2-214 $0.54 Net

C MOMENTARY CONTACT SPST: normally open. Red plastic button.
Cat. No. E2-142 $0.74 Net

D PUSH-ON/PUSH-OFF, SPST: white plastic button.
Cat. No. E2-144 $0.39 Net

KNIFE SWITCHES
Used for switching antennas, batteries, and other low voltage applications. Low loss, high dielectric insulating base and handle. Plated brass contacts. Screw connections.

Cat. No. E2-150 Single Pole/2 Position $3.90 Net
Cat. No. E2-511 Double Pole/2 Position $3.34 Net

AUTO RADIO NOISE SUPPRESSORS
Eliminate "static" created by spark gaps and distributor. Very effective on standard AM car radios, and helpful in improving reception on FM, Ham, and CB equipment. For best results, use one distributor suppressor and 4 to 8 spark plug suppressors, depending on number of cylinders.

SPARK PLUG TYPE
Snaps on top of spark plug. One required for each plug.

DISTRIBUTOR TYPE
Snaps in top of distributor.

TEST LEADS AND PRODS
One place molded, unbreakable construction make these among the best available at any price. Replacement test probes are molded of hi-dielectric unbreakable plastic with solderless wire connections and have sturdy pointed tips.

Cat. No. F2-936 $.99/pk., Net Leads 20" with Test (Phone) Tip ends.
Cat. No. F3-946 $.75/pk., Net Test prods. Black or Red

UNIVERSAL EXTENSION SPEAKER
The perfect speaker for extending your music system throughout your home or office, or to connect to your transistor radio for "big set" sound. Beautiful hand finished walnut cabinet and matching case pattern plastic grill. 5" x 6" speaker and good acoustical design assure excellent music and speech reproduction. Surprisingly good stereo sound when used in pairs. Built-in volume control. Screw terminals for wire connections. Brackets for wall mounting. Specification: 8 ohms, 3 watt. Size: 12 1/2" wide, 83/4" high, 3 3/4" deep.
Cat. No. Z2-250 $9.95 Net

“HOBBY-PACK” SEMICONDUCTORS

PACK 1

PNP-HI POWER GERMANIUM TRANSISTORS
TO-3 cases type gain 60, max. opert. Volt 12, 1000 V power, 4.5W.
K4-520 Pkg of 1 $1.99

PACK 2

PNP-GN. PURPOSE AUDIO/RF SILICON TRANSISTOR
T0-5 case type gain 45, max. opert. Volt 12, 1000 V power, 4.5W.
K4-521 Pkg of 2 $1.95

PACK 3

PNP-GN. PURPOSE AUDIO/RF GERMANIUM TRANSISTOR
T0-92/98 case type gain 50, max. opert. Volt 12, 1000 V power, 4.5W.
K4-505 Pkg of 3 $5.99 Net

PACK 4

PNP-HIGH POWER SILICON TRANSISTOR
TO-3 case type gain 60, max. opert. Volt 12, 1000 V power, 4.5W.
K4-525 Pkg of 5 $12.99

PACK 5

PNP-GN. PURPOSE AUDIO/RF GERMANIUM TRANSISTOR
T0-5 case type gain 45, max. opert. Volt 12, 1000 V power, 4.5W.
K4-506 Pkg of 5 $5.99 Net

PACK 6

PNP-HIGH GAIN AUDIO/RF SILICON TRANSISTOR
TO-92/98 case type gain 45, max. opert. Volt 12, 1000 V power, 4.5W.
K4-507 Pkg of 5 $5.99 Net

PACK 7

PNP-HIGH FREQUENCY SILICON TRANSISTOR
TO-92/98 case type gain 45, max. opert. Volt 12, 1000 V power, 4.5W.
K4-555 Pkg of 2 $4.95

PACK 8

PNP-HIGH FREQUENCY SILICON TRANSISTOR
TO-92/98 case type gain 50, max. opert. Volt 12, 1000 V power, 4.5W.
K4-557 Pkg of 2 $5.95

SILICON RECTIFIERS, 1 AM

PACK 1

PNP-GN. PURPOSE SILICON SIGNAL DIODE
TO-3 case type gain 0.06, max. opert. Volt 12, power 0.06W.
K4-550 Pkg of 5 $5.99

PACK 2

PNP-GN. PURPOSE SILICON SIGNAL DIODE
TO-3 case type gain 0.06, max. opert. Volt 12, power 0.06W.
K4-552 Pkg of 5 $5.95

PACK 3

PNP-HIGH FREQUENCY SILICON TRANSISTOR
TO-92/98 case type gain 45, max. opert. Volt 12, 1000 V power, 4.5W.
K4-555 Pkg of 2 $4.95

PACK 4

PNP-HIGH FREQUENCY SILICON TRANSISTOR
TO-92/98 case type gain 50, max. opert. Volt 12, 1000 V power, 4.5W.
K4-557 Pkg of 2 $5.95

100 VOLT SERIES
For printed circuit mounting and where 3 to 12 volt types are specified.

12 VOLT SERIES--PARALLEL LEADS
Net
Cat. No. Rating
AE-102 100F .39
AE-110 100F .75
AE-120 100F 1.59
AE-130 100F 2.99
AE-140 100F 5.79

25 VOLT SERIES--AXIAL LEADS
Net
Cat. No. Rating
AE-136 47F .19
AE-137 68F .29
AE-147 100F .39
AE-157 100F .75
AE-113 100F 1.59
AE-114 100F 2.99
AE-124 100F 5.79

SILVER MICA CAPACITORS
These are precision capacitors for circuits requiring close tolerance, stability, and dependability. Rated at 500 VDC, Insulation 500.

UNIVERSAL SPICE-IN TYPE
For use on distributor or spark plugs where snap-in type will not fit due to limited space.

2000uF 1.55 $7.65
20uF 1.55 $7.65
20uF 1.76 $7.65
76 uF 1.76 $7.65
76 uF 2.95 $7.65

450 VOLT SERIES
Net
Cat. No. Rating
AE-131 150F .39
AE-132 150F .79
AE-133 150F 1.59
AE-134 150F 2.99

50 VOLT SERIES--AXIAL LEADS
For use where 50 to 50 Volt types are specified.

Net
Cat. No. Rating
AE-010 100F .39
AE-011 100F .69
AE-020 100F 1.39
AE-021 100F 2.79

500uF 5.99 $7.95
50uF 5.99 $7.95
50uF 1.55 $7.65
50uF 2.95 $7.65

500uF 1.55 $7.65
150F 1.55 $7.65
150F 2.95 $7.65
150F 5.99 $7.95

## Compact Hi-Fi Speaker System

Truly Hi-Fi performance in an ultra compact, beautifully finished cabinet. Powerful woofer of the "acoustic suspension" type coupled with a rear loaded mid/high frequency tweeter produces true life-like sound with excellent base, mid-range and clear highs.

**Specification:**
- Impedance 8 ohms
- Power handling capacity 10 watts
- Frequency response 40 to 20,000 Hz
- Vitrally flat from 90 thru 16 KHz
- Size: 6 1/2" wide x 10 3/4" high, 6 1/2" deep.

Cat. No. 22-265 $16.95 ea. /$32.50 pair

## Wide Range 10 Watt Extension Speaker

An ideal speaker for use in public address, paging or music systems in schools, churches, industrial, professional, and commercial enterprises. Also well suited for use in the home in connection with a Hi-Fi or music system. Sturdy solid wood baffle with a powerful 8" "Twin Cone" speaker, and 5 oz. magnet. Conservatively rated at 10 watts. Excellent frequency response. Built-in volume control. Wall mounting bracket included.

**Specification:**
- Impedance 8 ohms
- Size: 12" wide, 10" high, 4 3/4" deep
- Color: Blonde $14.90 Net
- Color: Walnut $14.90 Net

## Rotary Switches

Extremely compact design. Highest quality construction for long life. Silver plated contacts. Base, mid-range and tweeter ranges in a single speaker. They blend with any type of system. Very economical. They are suited as replacements or in constructing electronic devices, and for experimental and science projects.

**Specification:**
- Base, mid-range and tweeter ranges
- Silver plated contacts
- Very economical
- Suitable for replacements
- Ideal for experimental and science projects

## Code Practice Set

Consists of telegraph key and signal unit. Containing high quality buzzer and battery. Panel kit included, and cable with terminals. Key and signal unit can be connected with a long wire for "remote" signaling.

J-4822 $3.99 Net

## Telegraph Key

The perfect key for the "novice" to practice code. Adjustable tension and contact spacing. Silver contacts.

J-4820 $1.19 Net

## Semiconductor Cross Reference

Items cross referenced are electrically and mechanically identical or very similar in character and function. They are not used at higher voltages than those for which they are marked.

<table>
<thead>
<tr>
<th>Type</th>
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</table>

## Power Supply Plugs and Jacks

These plugs and jacks are used extensively on imported battery operated tape recorders, CB sets, radios, etc. to connect power supplies. Easy to attach or install.

**Package of one each of the two standard size plugs**
- No. 23-140 indoors $0.59/5pk Net
- No. 23-145 outdoors $0.49/5pk Net

## RF-UHF Coaxial Connectors

These high quality connectors and adapters are precision molded of brass or die cast zinc. Silver plated for lowest possible contact resistance.

**Specification:**
- Precision molded of brass or die cast zinc
- Silver plated for lowest possible contact resistance
- Suitable for professional, industrial, schools, churches, and experimental or music systems

## Miniature Speakers

Standard small round loudspeakers for use in transistors, radios, small tape recorders, walkie talkies, etc. Ideally suited as replacements or in constructing small electronic devices, and for experimental and science projects.

**Specification:**
- Small round loudspeakers
- Suitable as replacements
- Ideal for experimental and science projects

## Small Oval and "S" Speakers

These are ideal speakers for small to medium size electronic and communication equipment such as radios, TV's, phonographs, small sound systems, electronic, public address equipment; or for any devices requiring excellent sound with minimum height requirement.

**Specification:**
- Small oval and "S" speakers
- Ideal for small to medium size electronic and communication equipment
- Suitable for radios, TV's, phonographs, small sound systems, electronic, public address equipment; or for any devices requiring excellent sound with minimum height requirement

## Dynamic Earphones

Solid, resistance-free construction. Clean functional styling and attractive wood finish will blend with any surrounding from home to industrial application. Beautifully finished, woven wool cloth, plush. Wall mounting bracket included. 8 inch speaker, 12" wide, 10" high, and 8" deep.

**Specification:**
- Solid, resistance-free construction
- Clean functional styling and attractive wood finish
- Suitable for home and industrial applications
- Beautifully finished, woven wool cloth, plush
- Wall mounting bracket included

<table>
<thead>
<tr>
<th>Impedance</th>
<th>Plug</th>
<th>Cord Length</th>
<th>Cat. No.</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>Low</td>
<td>Sub-min.</td>
<td>3'</td>
<td>04-215</td>
<td>$0.99</td>
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<tr>
<td>Low</td>
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<tr>
<td>Low</td>
<td>High</td>
<td>6'</td>
<td>04-226</td>
<td>$1.95</td>
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</tbody>
</table>

*As low as 4 to 16 ohms. High = 500 to 3,000 ohms
CHASSIS BOXES AND INSTRUMENT CASES

Ideal for controls, switching circuits, small test and meters, hobby projects, etc.

PLASTIC INSTRUMENT CASES

Molded of heavy black phenolic with polished surfaces. The finest boxes obtainable. Lid is recessed and is attached with 4 screws (supplied).

Cat. No. J4-725 2½ x 3½ x 1½ $1.39 Net
Cat. No. J4-727 2½ x 5½ x 1½ $1.99 Net
Cat. No. J4-726 3½ x 6 x 1½ 1.69 Net

ALUMINUM CHASSIS BOXES

Attractive gray hammertone finish. Two-piece snap lock construction for quick assembly. This design permits installation of maximum number of components and makes wiring very easy.

Cat. No. J4-805 2½ x 1½ x 1¼ $ .88 Net
Cat. No. J4-795 2½ x 2¼ x 1½ .98 Net
Cat. No. J4-797 3¼ x 2¼ x 1½ 1.19 Net
Cat. No. J4-798 4 x 2¼ x 1½ 1.29 Net
Cat. No. J4-799 3¾ x 3 x 2½ 1.99 Net
Cat. No. J4-789 5 x 2½ x 2½ 1.99 Net
Cat. No. J4-741 5½ x 3 x 2½ 1.83 Net

FUSE HOLDERS

Panel mounted (front loading) bayonet type. Fits panels up to 5/16" thick. ½" dimounting hole. Fits all ⅛" x 1¼" fuses.

Cat. No. E2-495 $ .69 Net

Clips type for all standard ⅛" x 1¼" fuses. Packed spring brass clips. Plastic insulated base.

Cat. No. E2-497 $ .34 Net

EXPEDITOR HEADPHONES

Lightweight, double phones with adjustable headband for comfortable fit. Excellent sensitivity and clear sound, especially on voice. Frequency response: 300-3000 Hz.

High impedance model (2,000 ohm). Cord is terminated with 3-pole tips.

J-825 $2.95 Net

Low impedance model (8 ohm). Cord has miniature (3½ mm) phone plug.

J-826 $2.95 Net

PILOT LIGHT SOCKETS AND ASSEMBLIES

Sockets with universal brackets that can be bent into many shapes for any application.

No. E2-405 Min. Screw Base (For Lamps C & E) $ .29 Net
No. E2-401 Min. Bayonet Base (For Lamps D & E) .29 Net
No. E2-402 For 110V Candleabra Base Lamps .29 Net

Jewel faceted indicator lamp assembly. Mounts in 7/16" hole. Jewel is set in attractive polished chrome rim. Adjusts for any type of lamp used.

No. E2-405 Min. Bayonet Base (For Lamps D & E) with red lens $ .69 Net
No. E2-406 Same but with green lens .69 Net

Modern square style with translucent plastic lens. Lamp replaceable from front. 11/16" mounting hole. Fits panels to 7/16" thickness.

No. E2-407 Min. Screw Base (For Lamps C & F) with red lens $ .89 Net
No. E2-408 Same but with green lens .89 Net

CO T CO T

Attractive indicator light assembly with domed shaped plastic lenses for maximum visibility. Includes one red, green, and white lens. Lamps replaceable from front ½" mounting hole. Max. panel thickness: 5/32".

No. E2-410 Min. Bayonet Base (For Lamps D) $ .89 Net

Miniature assembly for use where space is limited. Supplemented with both red and green lens and Type 1768 6-Volt lamp, replaceable from front. Mounts in ½" hole. Fits panel to ¾" thickness.

No. E2-412 Midget Screw Base (For Lamps "G") $ .65 Net

Neon lamp assembly for use on 110-125 volt AC or DC. Incorporates special bright lamp for excellent visibility. With one each red and green lens.

No. E2-420 Neon Lamp Assembly $ .98 Net

THE AMAZING REED SWITCH

Operates by proximity of a magnet—nothing to touch. Hermetically sealed, completely moisture and dust proof. Used for dozens of hobby and industrial applications such as burglar alarms, toys, limit, light and temperature controls; counters; position indicators, etc. When used with a permanent magnet, a reed switch operates as a mechanical switch. With a coil, it becomes a sensitive relay.

HOBBYIST REED SWITCH KIT

Consists of standard size switch and Alnicos magnet. Switch is rated @ 1½ A up to 150V AC/100V DC, but not to exceed 12W Max.

Cat. No. E2-102 $ .99 Net

PRECISION REED SWITCH KIT

Consists of standard size switch, Alnico magnet and nylon bobbin for winding relay coil. Switch is rated @ ½ A to 150V DC/250V AC, but not to exceed 25W Max. Sensitivity: 40-50 AT. Actuating Time: 2½ milliseconds. Life expectancy: several million cycles.

Cat. No. E2-095 $1.49 Net

MINIATURE SPDT REED SWITCH KIT

Miniature SPDT switch with magnet and bobbin. Rating ½ amp up to 100V AC/DC, but not to exceed 10W Max.

Cat. No. E2-100 $1.95 Net

FUSES

CAT. NO. TYPE NET

A D2-105 SFE9A .21
B D2-106 SFE9B .19
C D2-107 SFE9C .19

QUICK ACTING

D D2-120 3AG1A/1A .36
E D2-121 3AG1A/2 .33
F D2-122 3AG1B .33
G D2-123 3AG2A .28
H D2-125 3AG4A .28
I D2-126 3AG5A .28
J D2-140 3AG6A .45

SLO-BLO

K D2-160 3AG1A .79
L D2-161 3AG2A .74
M D2-162 3AG3A .59
N D2-163 3AG5A .59
O D2-164 3AG6A .59

LIMITED CURRENT SLO-BLO ("N" TYPE)

P D2-172 3AG7/10A .81

MINIATURE QUICK ACTING (8 mm x 20 mm)*

Q D2-185 3AG1A .50
R D2-186 3AG2A .50
S D2-187 3AG3A .50
T D2-188 3AG5A .50
U D2-189 3AG6A .50

* Used on most European equipment
CHIMNEY "QUICK" MOUNT
A low cost, good quality mount for small to medium size antennas. Easy to install. Heavy zinc plated and chrome coated to resist corrosion. Fits masts up to 1½" diam.; chimney clearance, 3"; with two 12" lengths of galvanized ¾" wide strapping and all necessary hardware.
U2-010-1 1 pair $3.27 Net

“SNAP-IN” CHIMNEY MOUNT
A deluxe mount. Extra heavy gauge steel construction zinc chromate coated for maximum corrosion resistance. Simply "snap" mast into brackets and tighten bolts. Fits masts to 1½" diam.; chimney clearance, 4"; complete with two 12" lengths of stainless steel strapping and all required hardware.
U2-009-1 1 pair $4.50 Net

“SWING-UP” ROOF MOUNT
Adjusts to any angle. Fits masts up to 1½" diam. For roof or wall mounting. Heavy plated steel, double protected against corrosion. For guy wire and other necessary hardware see next page.
Cat. No. U2-008 $ .92 Net

VENT MOUNT
For attaching masts to plumbing vents up to 2½" diam. Made of heavy steel, zinc plated to prevent rust. Fits antenna masts up to 1½" diam.
Cat. No. U2-018 $1.47 Net

WALL MOUNT
An economical way to mount antennas to walls where overhang or eave does not exceed 2½". Heavy steel, zinc plated. Will accept masts up to 1½" diam.
Cat. No. U2-002-1 $1.12 Net

TOGGLE SWITCHES
[Diagram of toggle switches]

MINIATURE TOGGLE SWITCHES
Less than half the size of standard toggle switches. Real space savers. Rated at 125 volt AC, ½" mounting hole.
Cat. No. E2-118 SPST-3A $1.29 Net
Cat. No. E2-119 DPDT-6A $1.79 Net

STANDARD TOGGLE SWITCHES
Positive snap action, long-life; complete with two mounting nuts to fit panels up to 7/16" thick. 15/32" mounting hole.
SPST—6A/125V AC. UL listed.
Cat. No. E2-120 $ .99 Net
Cat. No. E2-121 $1.10 Net
Cat. No. E2-122 $1.69 Net
Cat. No. E2-123 $1.48 Net
SPDT—3 amp. Light Duty
Cat. No. E2-130 $ .59 Net
Cat. No. E2-133 $ .76 Net

LONG SHANK TOGGLE SWITCHES
Same as above, but with 1" long shank for mounting in wooden cabinets.
SPST—6A/125V AC. UL listed.
Cat. No. E2-126 $1.29 Net
Cat. No. E2-127 DPDT-6A/125V AC. UL listed.
Cat. No. E2-128 $2.80 Net

TOGGLE SWITCH ON-OFF PLATE
Nickel plated. Fits all standard toggle switches.
Cat. No. E2-137 Pkg. of 5 $ .19 Net

ULTRA SENSITIVE, LAB TYPE MULTI-TESTER
100,000 ohm/volt; 20 ranges
A precision instrument designed for laboratory use, but still within the price range of technicians, schools, and electronics hobbyists. Large two-color meter scale for accurate reading.
High internal resistance measures critical voltages without "loading" the circuit. Expanded ohm scales read from fraction of one ohm to 20 megohm. House in an attractive and strong phenolic case with carrying handle. 7" meter accuracy.

SPECIFICATIONS
Sensitivity: 100,000 ohm/volt DC
DC Volt: 0.1—2.5—10—50—250—500—1,000
AC Volt: 2.5—10—50—250—1,000
AC Current: 10 A—250 PA—2.5 MA—25 MA
Ohm: 2K—2000—2 MEG—20 MEG
Decibels: —20 to +63 (5 ranges)
Size: 7 1/4" high x 6" wide x 2 7/8" deep.

Cat. No. H3-361 $37.50 Net

19 RANGE MULTI-TESTER
A precision instrument with 30,000 ohm per volt sensitivity. Rugged, easy to use and read, this is an ideal meter for the lab, the technician, and the serious hobbyist. Two color scale for easy readability. Hand calibration and 1% precision resistors assure excellent accuracy.

SPECIFICATIONS
Sensitivity: 30 K ohm/volt DC — 15 K AC
DC Volt: 3—12—60—300—600—1,200
AC Volt: 6—30—120—600—1,200
DC Current: 30 mA—3 mA—30—300 mA;
Ohm: 16 K—160 K—1.6 MEG—16 MEG
Decibels: —20 to +37 (2 ranges)
Capacitance: 250 pF to 0.02 uF
Size: 4½" high x 3½" wide x 1½" deep.

Cat. No. H3-355 $19.50 Net

16 RANGE MULTI-TESTER
Small, universal instrument in modern rectangular styling. Jeweled movement. Easy to read 2-color dial. An all-around tester, equally useful for portable or bench use by technicians, experimenters, in schools, etc.

SPECIFICATIONS
Sensitivity: 20,000 ohm/volt DC — 10,000 ohm/volt AC
DC Volt: 0.3—3—12—60—300—600
AC Volt: 12—60—120—600
DC Current: 60 mA—3 mA—30—300 mA
Ohm: 5 K—500 K—5 MEG
Decibels: —20 to +37 (2 ranges)
Size: 4¾" high x 3½" wide x 1½" deep.

Cat. No. H3-352 $14.95 Net

HANDY POCKET TESTER — 9 RANGES
One of the finest small multi-testers at any price. An ideal instrument for the technician to carry with him, but equally useful for the budget minded experimenter and hobbyist. With carrying case, range selector switch, zero adjustment for brush. Built-in magnet holds meter securely to metal workbench chassis, electrical appliance, automobile fender, etc. Only 3¼" x 2½" x 1¼".

SPECIFICATIONS
Sensitivity: 1,000 ohm/volt AC/DC
DC Volt: 1—10—50—250—1,000
AC Volt: 10—250—500
DC Current: 250 mA
Ohm: 100 K (3 K at center scale)

Cat. No. H3-348 $8.95 Net

SLIDE SWITCHES
[Diagram of slide switches]

SUB-MINIATURE SLIDE SWITCHES
World’s finest slide switches. Suitable for all miniaturized equipment. Rated at ½ amp — 50 volt AC.
SPDT TYPE, 7/16" wide x 9/16" mounting cri, Cat. No. E2-104 $ .34 Net
Cat. No. E2-105 DPDT TYPE, 3/8" wide x 3/16" mounting cri, Cat. No. E2-105 $ .49 Net

SPRING RETURN SLIDE SWITCH
For use on intercoms, etc. UL listed and rated at 6 amp, 125 volt AC. Size: 17/32" wide x 11/16" mounting crts.
Cat. No. E2-112 SPDT $ .26 Net

STANDARD SLIDE SWITCHES
UL listed. For electrical, electronic and automotive uses. Rated at 3 amp, 125 volt AC. Size: 17/32" wide x 1½" mounting crts.
Cat. No. E2-110 SPDT $ .22 Net
Cat. No. E2-111 DPDT $ .24 Net
Cat. No. E2-114 DPDT $ .20 Net
MULTI-SET VHF-UHF-FM COUPLER
For strong signal areas Operate up to 10 TV sets (or both) on 1 antenna. Coupler merely "slides on" lead-in wire (flat line); no cutting, stripping, splicing or soldering.

LOW LOSS 2-SET COUPLER
Operate 2 sets (TV & FM, or 2 TV, or 2 FM) from 1 antenna. Coupler mounts anywhere; wall, mast, indoors (mounting bracket included).

LOW-LOSS TV SIGNAL "COMBINER" Allows you to couple a UHF and VHF antenna together to a single lead-in; or may be used as a splitter to separate UHF and VHF channels at set. Attaches anywhere; mast, wall, etc. (mounting accessories included).

ANTENNA MOUNTING ACCESSORIES

CO-AX CABLES
TYPE RG 58/U has an impedance of 52 Ohm and is used for CB and ham antenna connections and UHF measuring instrument cables.

TYPE RG 59/U has an impedance of 75 Ohm and is used to connect TV sets to master antenna systems, etc.

AC REPLACEMENT CORD
For radios, TV's, lamps, clocks, and small appliances; 6 ft. long.

GROUNDING PLUG
Sturdy rubber handle "U" Ground Plug. Accepts wires to 7/16" diam. Includes cable clamp.

EXTENSION CORDS
All vinyl with molded-on uninsulating plugs and outlets; 9 ft. long.

EXTENSION CORDS, INDOOR-OUTDOOR, HEAVY DUTY
Lifetime cords for use with power and garden tools, portable lighting, etc.; bright yellow, 25 ft. long.

3 OUTLET PLUG
Also known as "Cube Tap." Permits 3 cords to be plugged into a single outlet.

FEMALE CONNECTOR
Attach at end or anywhere along the cord for an additional outlet; No tools, cutting or stripping. Pkg. contains one each Brown and Ivory.

TWIST-ON WIRE CONNECTORS
Soldiers connectors, safe for all electrical wire splicing. Assortment of small and medium sizes for household and electronic wiring.

ELECTRICAL PLUG
Heavy duty type. Fits cords to 5/16" diam. Vinyl plastic. Matches plug No. L3-748.

GROUNDING ADAPTOR
Permits "U" ground 3 prong plugs to be plugged into the regular, older style 2 prong outlets.

ANTENNA WIRE
Stranded 16 gauge copper wire, not insulated. The standard wire for outside antennas.

TV "CHEATER" CORD
Cord with special interlock connector used on most TV sets; 6 ft. long.

TV WIRE HOLDERS (Stand-offs)
[Descriptions and pricing details for TV wire holders]
PHONIC PIN PLUGS AND JACKS (RCA Type)

- Standard small plug, solder type.
- No. F2-800 Pkg. of 35. 29 Net/Pkg.
- No. F2-802 Pkg. of 25. 10 Net/Pkg.
- No. F2-807 Pkg. of 25. 10 Net/Pkg.

- Jack; cord mounting; shielded handle, easy to solder.
- Cat. No. F2-807 $2.59 Net/Pkg.
- Jack; single hole chassis mounting.
- Cat. No. F2-804 Pkg. of 25. 99 Net/Pkg.

MICROPHONE CONNECTORS

- Male connector, single contact type.
- Cat. No. F3-110 46 Net
- Female connector, single contact type.
- Cat. No. F3-111 $5.90 Net
- Panel (chassis) mounting connector; supplied with insulating washers.
- Cat. No. F2-112 37 Net

REAR SEAT EXTENSION
AUTO SPEAKER KIT

- Ideal for station wagons, convertibles, sport cars, it's pre-wired and can be installed in a few minutes. Small speaker can be clipped on or fastened anywhere with a single screw. Switch selects front, rear, or both speakers. All necessary wire, hardware, and instructions are included.
- Cat. No. 57-199 $3.50 Net

AUTO SPEAKER CONTROLS
REAR SEAT SPEAKER SWITCH

- With 3 positions: Off, 12 ohm, 24 ohm, great for front speaker alone, rear speaker off, or both together. Also used in the possible retarding of low frequencies; ideal for hi-fi, stereo, or Dynaco type amplifiers, or with music (in the range of 300-4000 cycles) included. Very easy to install.
- Cat. No. 57-188 $9.99 Net

FADER CONTROL

- For rear seat speaker. Permits continual control of both speakers with a single knob. Very easy to install when retaining to the left the rear speaker will fade in while the volume on the front speaker diminishes. Complete with wire, hardware, and instructions.
- Cat. No. 57-189 $11.10 Net

PRECISION PANEL METERS

- Economical, high quality, dependable meters in outstanding modern styling.
- Rugged construction — 2% accuracy
- Hand calibrated, linear dial scales
- D'Arsonval movement with jeweled bearings
- Crystal clear plastic coverplate

DC CURRENT TYPES

- DJ-910 0-50 Microamp
- DJ-911 0-50 MILLAmp
- DJ-912 0-50 Milliamp
- DJ-913 0-50 Milliamp
- DJ-914 0-50 Milliamp
- DJ-915 0-50 Milliamp
- DJ-916 0-50 Milliamp
- DJ-917 0-100 Milliamp

DC VOLT TYPES

- DJ-913 0-5 Volt
- DJ-914 0-12 Volt
- DJ-915 0-15 Volt
- DJ-916 0-15 Volt

AC VOLT TYPES

- DJ-917 0-25 Volt
- DJ-918 0-100 Volt

SPECIAL TYPES

- T-920 0-10K Volt
- T-921 0-10K Volt
- T-922 0-10K Volt

SOLDERING IRON

- A quality iron of just the right size for electronic wiring and printed circuit work. Blender, replaceable tip. Rating: 30 Watt; 115 Volt AC/DC.
- Cat. No. H3-380 $2.49 Net

SOLDERING KIT

- Ideal for technicians and kit builders. Contains soldering iron No. H3-380, package of 60-40 rosin core solder and handy solder-aid tool. Tool has forked end for wrapping or removing wires from terminals. Other end has a metal brush for removing solder from P.C. boards or terminals. Made of stainless steel to which solder will not adhere.
- Cat. No. H3-376 $3.95 Net
DELUXE QUALITY KNOBS AND DIALS

Calectro Knobs are beautifully styled and molded of finest thermo-setting plastic. All have brass inserts for 1/4" shafts and set screw. Insert is insulated from any metal trim to prevent possible shock if used on "hot" chassis.

TUBE SOCKETS
Calectro Tube Sockets are of the saddle type and designed for bottom mounting. Three chassis holes are required. Sockets are fastened with No. 2 or No. 4 screws and nuts.

TRANSISTOR SOCKETS
The use of Transistor Sockets is recommended for all experiment circuits as well as hobby and science projects. They make it possible to change transistors easily and avoid the risk of damaging them when soldering.

VARIABLE (TUNING) CAPACITORS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>COLOR</th>
<th>DIA. OR LENGTH</th>
<th>HEIGHT</th>
<th>CAT. NO.</th>
<th>NET EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Blue</td>
<td>2 1/2&quot;</td>
<td>7/16&quot;</td>
<td>E2-705</td>
<td>$.34</td>
</tr>
<tr>
<td>B</td>
<td>Blue</td>
<td>7/16&quot;</td>
<td>7/16&quot;</td>
<td>E2-707</td>
<td>$.34</td>
</tr>
<tr>
<td>C</td>
<td>White</td>
<td>7/16&quot;</td>
<td>5/8&quot;</td>
<td>E2-710</td>
<td>$.39</td>
</tr>
<tr>
<td>D</td>
<td>Black</td>
<td>1 1/16&quot;</td>
<td>1 1/8&quot;</td>
<td>E2-714</td>
<td>$.49</td>
</tr>
<tr>
<td>E</td>
<td>Black</td>
<td>1 1/8&quot;</td>
<td>7/8&quot;</td>
<td>E2-718</td>
<td>$.95</td>
</tr>
<tr>
<td>F</td>
<td>Black</td>
<td>1 1/36&quot;</td>
<td>1 13/16&quot;</td>
<td>E2-720</td>
<td>$.34</td>
</tr>
<tr>
<td>G</td>
<td>Black</td>
<td>1 1/36&quot;</td>
<td>1 13/16&quot;</td>
<td>E2-721</td>
<td>$.39</td>
</tr>
<tr>
<td>H</td>
<td>Black</td>
<td>1 1/36&quot;</td>
<td>1 13/16&quot;</td>
<td>E2-723</td>
<td>$.39</td>
</tr>
<tr>
<td>I</td>
<td>Black</td>
<td>1 1/36&quot;</td>
<td>1 13/16&quot;</td>
<td>E2-725</td>
<td>$.39</td>
</tr>
</tbody>
</table>

L Calibrated dial plate; gold etched with numbers 1 thru 10.
L Same as above, but with "Volume" heading.
M Veriler dial for precision tuning; mounts on front panel; 8 to 1 turn ratio. Diam. 11/16".
M Same as above, but 2" Diam.

PLUGS AND JACKS

FIG. 1

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>MGT. HOLE CENTERS</th>
<th>CAT. NO.</th>
<th>QUANT. PER PKG.</th>
<th>NET PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Banana Plugs. with internal stud for solderless or solder connection. No. F2-860 One each black and red $4.99 Net/pr.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Test Tip Plugs. heavy duty; solderless connection. No. F2-866 One each black and red $4.92 Net/pr.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Phone Jacks. solder type. No. F2-872 Package of 6 $2.95 Per/pkg.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Banana Jacks. Insulated; complete with wooden base and screws. No. F2-874 One each black and red $4.85 For Test Tip Jacks; Insulated; fits all standard Test and Phone Tips.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E No. F2-879 One each black and red $3.76 Net/pr.</td>
<td></td>
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</tr>
<tr>
<td>F Combination Jacks. Insulated; fits both banana, test and phone tips. No. F2-883 One each black and red $5.55 Net/pr.</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

BINDING POSTS AND FABNESHETCCKLIPS

BNDING POSTS are ideal for making connections to instruments, educational projects, radios, etc. They are ideal for breadboards, "banana breadboards" and "breadboards" and "breadboards" and "breadboards" and "breadboards"

ALLIGATOR AND BATTERY CLIPS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>QUANT. PER PKG.</th>
<th>NET PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>J Min. size (1&quot;), with flexible insulation. Solder connection. No. F2-900 One each black and red $2.99 Net/pr.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K Standard size (2&quot;), with screw for wire attachment or without solder; also fits banana plug. No. F2-904 Package of 2 $2.29 Per/pkg.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L Medium size (1&quot;1/2&quot;), otherwise same as (J) above. No. F2-906 One each black and red $2.32 Net/pr. Alligator clip adapter. Fits banana, test &amp; phone tip plugs. No. F2-908 One each black and red $7.95 Net/pr. Test and battery clips. (2&quot;) B: amp; insulated; with screws; No. F2-910 One each black and red $9.00 Net/pr.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M No. F2-911 One each black and red $4.35 Net/pr.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Variable Capacitors

<table>
<thead>
<tr>
<th>CAPACITOR</th>
<th>TYPE</th>
<th>QTY</th>
<th>#1</th>
<th>#2</th>
<th>#3</th>
<th>#4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al-226</td>
<td>30pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Al-227</td>
<td>60pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Al-228</td>
<td>100pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Al-229</td>
<td>150pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Al-230</td>
<td>220pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Al-231</td>
<td>330pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Al-232</td>
<td>470pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Al-233</td>
<td>680pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Al-234</td>
<td>1000pF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

SOLID DIELECTRIC TYPES

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>QUANT. PER PKG.</th>
<th>NET PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Gang, with dial for simple receiver, science projects, etc. Dial calibrated to broadcast band. Only 1&quot; square, 1/4&quot; deep. No. F2-982 2 $4.95</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Gang, same as Al-232 above, but with 1/2&quot; diam shaft, 1/2&quot; long. Without dial. No. F2-990 1 $3.55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Gang, Transistor radio type, complete with 1 5/16&quot; diam. dial. Only 13/16&quot; square. 7/16&quot; deep. Has Dimmers. No. F2-992 1 $3.55</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TRIMMER CAPACITORS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>QUANT. PER PKG.</th>
<th>NET PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Loss Ceramic Base. Mica insulated. 1/2&quot; wide by 5/16&quot; Al-242-61 or 1/4&quot; Al-242-51/4&quot; long. No. F2-984 2 $4.95</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Miniature Potentiometers with Switch

For all applications where a very small control is desirable. Only 11/16" diam.; 7/16" deep, including switch. Linear taper, rated at 1/4 Watt. Switch will handle 1 Amp @ 12 Volt or 1/2 Amp @ 48 Volt. Shaft extends 3/8" and will fit knurled or set-screw type knobs.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>QUANT. PER PKG.</th>
<th>NET PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Gang, with dia. for simple receiver, etc. Dial calibrated to broadcast band. Only 1&quot; squar, 1/4&quot; deep. No. F2-980 2 $4.95</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Gang, same as Al-232 above, but with 1/2&quot; diam shaft, 1/2&quot; long. Without dial. No. F2-990 1 $3.55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Gang, Transistor radio type, complete with 1 5/16&quot; diam. dial. Only 13/16&quot; square. 7/16&quot; deep. Has Dimmers. No. F2-992 1 $3.55</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Transistor Radio Volume Controls
For replacement in transistor radios or for hobby projects requiring a small, flat control. Has built-in on/off switch and is supplied with 15/16" diam. dial. Control is 3/4" diam. and total depth, including dial, is 7/16".
BATTERY HOLDERS

AA (Penlight) Cell Holders

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Cat. No.</th>
<th>Type</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>F3-055</td>
<td>1 Cell - 1 1/2 Volt</td>
<td>$.69</td>
</tr>
<tr>
<td>B</td>
<td>F3-056</td>
<td>2 Cells - .9 Volt</td>
<td>$.68</td>
</tr>
<tr>
<td>C</td>
<td>F3-057</td>
<td>1 Cell - 9 Volt</td>
<td>$.69</td>
</tr>
<tr>
<td>D</td>
<td>F3-058</td>
<td>3 Cells - 1 1/2 Volt</td>
<td>$.70</td>
</tr>
<tr>
<td>E</td>
<td>F3-060</td>
<td>3 Cells - 9 Volt</td>
<td>$.69</td>
</tr>
</tbody>
</table>

Above correct with battery snap No. F3-052 listed below.

C (Flashlight Type) Cell Holders

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Cat. No.</th>
<th>Type</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>F3-062</td>
<td>1 Cell - 1 1/2 Volt</td>
<td>$.39</td>
</tr>
<tr>
<td>B</td>
<td>F3-063</td>
<td>2 Cells - .9 Volt</td>
<td>$.70</td>
</tr>
<tr>
<td>C</td>
<td>F3-064</td>
<td>4 Cells - 9 Volt</td>
<td>$.69</td>
</tr>
</tbody>
</table>

Above correct with wires.

BATTERY CONNECTOR; snap type, batteries and size AA (Penlight) battery holders shown above.

No. F3-052

Fig. 2 .29 Net

MINIATURE AUDIO TRANSFORMERS

For ultra compact transistor radios, sub-miniature amplifiers, hearing aids, etc., improved design using small size cores and nylon bobbins.

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Type</th>
<th>Impedance in Ohms</th>
<th>Dim. in Inches</th>
<th>Pkg.</th>
<th>Cat. No.</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Input</td>
<td>30,000</td>
<td>1 1/2</td>
<td>1/16</td>
<td>F1-711</td>
<td>$.95</td>
</tr>
<tr>
<td>B</td>
<td>Output</td>
<td>1000</td>
<td>1 1/2</td>
<td>1/16</td>
<td>F1-712</td>
<td>$.85</td>
</tr>
</tbody>
</table>

TRANSISTOR AUDIO TRANSFORMERS

This type is used extensively in the larger transistor radio, tape recorders and phonograph amplifiers. Exceptional quality for size and price.

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Type</th>
<th>Impedance in Ohms</th>
<th>Dim. in Inches</th>
<th>Pkg.</th>
<th>Cat. No.</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Input</td>
<td>1000</td>
<td>1 1/2</td>
<td>1/16</td>
<td>F1-721</td>
<td>$1.10</td>
</tr>
<tr>
<td>B</td>
<td>Output</td>
<td>1000</td>
<td>1 1/2</td>
<td>1/16</td>
<td>F1-722</td>
<td>$.95</td>
</tr>
</tbody>
</table>

TRANSISTOR DRIVER TRANSFORMERS

For construction of amplifiers with or without output transformers. Type D1-734 is furnished with schematic for typical 10 watt low cost, easy to build amplifier.

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Type</th>
<th>Impedance in Ohms</th>
<th>Dim. in Inches</th>
<th>Pkg.</th>
<th>Cat. No.</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Single</td>
<td>100</td>
<td>1 1/4</td>
<td>1/16</td>
<td>F1-734</td>
<td>2.05</td>
</tr>
<tr>
<td>C</td>
<td>Push-pull</td>
<td>100</td>
<td>1 1/4</td>
<td>1/16</td>
<td>F1-734</td>
<td>2.15</td>
</tr>
</tbody>
</table>

OUTPUT TRANSFORMERS, TUBE TYPE

Universal transformers for all tube type single or push-pull amplifiers up to 8 watts. Dependent on the connections, these transformers will match all standard tube types.

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Type</th>
<th>Impedance in Ohms</th>
<th>Dim. in Inches</th>
<th>Pkg.</th>
<th>Cat. No.</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>600 ohm</td>
<td>100</td>
<td>1 1/4</td>
<td>1/16</td>
<td>F1-744</td>
<td>$.95</td>
</tr>
<tr>
<td>B</td>
<td>330 ohm</td>
<td>100</td>
<td>1 1/4</td>
<td>1/16</td>
<td>F1-745</td>
<td>$.95</td>
</tr>
</tbody>
</table>

POWER SUPPLY AND FILAMENT TRANSFORMERS

For constructing power supplies for transistorized devices, battery chargers, filament supplies for tubes, etc. Highest quality, conservatively rated.

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Primary</th>
<th>Secondaries</th>
<th>Impedance in Ohms</th>
<th>Dim. in Inches</th>
<th>Pkg.</th>
<th>Cat. No.</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>117 V-60Hz</td>
<td>1250 ma</td>
<td>2 1/16</td>
<td>2 1/16</td>
<td>F1-747</td>
<td>$.95</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>117 V-60Hz</td>
<td>200 ma</td>
<td>2 1/16</td>
<td>2 1/16</td>
<td>F1-749</td>
<td>$.75</td>
<td></td>
</tr>
</tbody>
</table>

POWER TRANSFORMERS - TUBE TYPE

For radios, amplifiers and other electronic equipment using tubes.

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Primary</th>
<th>Secondary</th>
<th>Impedance in Ohms</th>
<th>Dim. in Inches</th>
<th>Pkg.</th>
<th>Cat. No.</th>
<th>Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>117 V-60Hz</td>
<td>200 ma</td>
<td>2 1/16</td>
<td>2 1/16</td>
<td>F1-761</td>
<td>6.50</td>
<td></td>
</tr>
</tbody>
</table>

MULTI-CONDUCTOR CORD AND CHASSIS CONNECTORS

Suits all electronic and electrical applications. Shells are attached with screws for easy assembly. Files are "indexed." Plugs of one type will not fit socket of another type. Max. rating is 500V - 7 1/2A, amp. 1800 Watt.

MALE CORD CONNECTORS

<table>
<thead>
<tr>
<th>No.</th>
<th>Cat. No.</th>
<th>Pkg. of 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1-130</td>
<td>F2-130</td>
<td>2</td>
</tr>
<tr>
<td>F1-151</td>
<td>F2-151</td>
<td>3</td>
</tr>
<tr>
<td>F1-152</td>
<td>F2-152</td>
<td>4</td>
</tr>
<tr>
<td>F1-153</td>
<td>F2-153</td>
<td>6</td>
</tr>
<tr>
<td>F1-154</td>
<td>F2-154</td>
<td>8</td>
</tr>
</tbody>
</table>

FEMALE CORD CONNECTORS

<table>
<thead>
<tr>
<th>No.</th>
<th>Cat. No.</th>
<th>Pkg. of 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1-160</td>
<td>F2-160</td>
<td>2</td>
</tr>
<tr>
<td>F1-162</td>
<td>F2-162</td>
<td>4</td>
</tr>
<tr>
<td>F1-163</td>
<td>F2-163</td>
<td>8</td>
</tr>
</tbody>
</table>

CHASSIS MOUNTED CONNECTORS

<table>
<thead>
<tr>
<th>No.</th>
<th>Cat. No.</th>
<th>Pkg. of 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1-170</td>
<td>F2-170</td>
<td>2</td>
</tr>
<tr>
<td>F1-171</td>
<td>F2-171</td>
<td>3</td>
</tr>
<tr>
<td>F1-172</td>
<td>F2-172</td>
<td>4</td>
</tr>
</tbody>
</table>

REDUCE THIS COUPON

Free Handbook—full of ideas, tips and projects, a $0.5leo value free with this certificate and the purchase of any Calctro item from your Calctro distributor.

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AT YOUR CALCTRO DISTRIBUTOR

FORM NO. CT-1
Engineering Student Engineers ‘Safetwist’

A well-socket safety device that is a blend of sound principles and a touch of imagination is expected to win the four-credit Unique-Enterprises in final judging for student engineers projects at FTU.

Competition was expected among the five teams of freshmen who made it into the finals with a variety of projects that ran from the winning entry to a remote control smoke detector, an electronic clock with moving parts, an auto mileage indicator, and a remote electric water heater for an in-line freezer.

Dr. Thomas Edwards, who headed the five teams of judges, commented that the projects -- ranging from a remote control device to “Safetwist,” an electronic clock with moving parts, an auto mileage indicator, and a remote electric water heater for an in-line freezer -- “required for an engineering design course -- showed a new amount of imagination and knowledge. The students who come along later are going to have a lot to shoot for,” he exclaimed.

The wall outlet device was developed by a team which adopted the “company” name, AC Enterprises. The device itself is known as “Safetwist,” and uses a spring-operated plate that covers the outlet slots. The next stop, assisted by Fred Haddad, chief engineer for Safetwist, is selling for a cent.

Haddad was joined in the project by Robert Butterfield, Alan Collins, Jock, an electronic clock with moving parts, and Robert Fouts, a native of Indiana, who hopes to patent Kold Start and with the aid of his fellow team members, market it on a limited basis, “particularly to my part of the country where it should really go over in a big way.”

Dr. Edwards agreed, adding that in the minds of the judges, the projects were capable of acceptance, “perhaps with a few modifications.” The ingenuity displayed in all cases is really commendable. We were impressed.”

—for The Carnival

Health Sciences

Profs Announced

Dr. Bernard Ostle, Dean of the College of Natural Sciences, has announced the appointment of two new faculty members in the department of Allied Health Sciences. They are Mrs. Marian J. Bister, a Robert A. Landis, assistant professor.

Mrs. Butterfield holds a B.S. degree in Medical Records Science from St. Louis University, has studied data processing at Temple University, and is a registered certified librarian. Prior to joining FTU, Mrs. Butler was employed as Medical Record Librarian at West End Medical Center in Washington, D.C., and at the U. S. Naval, Mercy, Providence, and Temple University Hospitals.

Laird received the B.S. degree from Texas A&M University in 1961, the R.P.T. from Baylor University in 1962, and his Master of Clinical Therapy in 1963, and the M.S. degree from Texas A&M University in 1969. He is presently completing the requirements for the Ph.D. degree at the University of Texas Medical Branch in Galveston.

Art Dept. Faculty To Exhibit Works

The faculty of the art department at FTU will get together on January 4 and arriving at Tampa on January 6, Campus will have been set up in the Administrative Building with the works of several faculty members, including the wicked, thieves, robbers, and prostitutes.

The exhibition continues as long as the museum is open, and the group will start with their work on Friday, January 15 at noon and will work throughout until Friday night, Saturday, and Tuesday night until the opening on Sunday, January 17 at 2 p.m.

For more information, call 451-4541, Elni Hoehn, Rosalind Eickenroth, and Mrs. Butler holds a B.S. degree in Medical Records Science from St. Louis University, has studied data processing at Temple University, and is a registered certified librarian.

The group, including those in mystical contemplation of ultimate reality, in Herman Hesse’s " Siddhartha," OM hovers over all the voices of the world, meaning salvation and perfection, sympathy and compassion, surrendering to the stream of Ms., belonging to the unity of all things. OM requires a consistent self-examination, a searching for God, a reaching out to people, including the wicked, thieves, robbers, and prostitutes.

The museum will supply all suits in our store 2/$100

Reg. & Long

Latest Styles - FREE Alterations

OPEN TIL 9:00 P.M.

Please Save Environment Try Helping Yourself(rise?)

"Save the environment!" is a cry heard on many campuses and throughout the country. Dr. Yousef A. Yousef, Associate Professor of Engineering at FTU, states that "as far as we see, we have enough technology to solve the problems. People say, "Safetwist" started apathy to this problem. Yousef cites as needed to continue the work to eliminate pollution. Dr. Yousef commented on the Arsenal Dam in Egypt which has brought electricity to the entire nation while being the main factor in the industrialization and provision for a growing population. The dam provides the long term regulation and storage of water and controls the amount of water flowing downstream allowing for the use of two million acres which were not previously used due to flooding. However, some problems are developed such as lack of irrigation by water changes in ecological environment downstream from the dam. At present Dr. Yousef belongs to the Water Pollution Control Federation, the American Society of Chemical Engineers, the Air, Water, and Waste Water Division, the research society Sigma Xi, the Civil Engineering honorary society Chi Epsilon, and he is a registered Professional Engineer in the state of Texas. Yousef is the author of several papers and reports on pollution in flowing ecological systems.

Paddlers Tour

They come from all over the United States to Florida Tech. Most of them camp over the weekend. Wednesday was an unusual day in

Huntington College. The group drove to Tampa, leaving Huntington, Indiana, January 4 and arriving at Tampa on January 6. Campus at night in convenient camping sites along the way, the group of Indiana cyclists is getting the Sunshine State close to the goal.

Following their tour of FTU, the group of cyclists thanked Mrs. Beaton for her hospitality and guide services and especially east of S.R. 50 toward Titusville and Cape Kennedy. Following a visit to the Cocoa, the group plans on cycling north along the east coast of Florida. From“Heaven to Everglade,” from there the outdoor group will pick up their cars and head back to the cold of Indiana.

The museum will supply all suits in our store 2/$100

Reg. & Long

Latest Styles - FREE Alterations

OPEN TIL 9:00 P.M.

THE CABOOSE

LIVE ENTERTAINMENT

DRAFT BEER BY THE POUND

Cold Duck on Tap • Steak Sandwiches

17-62 BETWEEN JAI & K-MART

For more information, call 451-4541, Elni Hoehn, Rosalind Eickenroth, and Mrs. Butler holds a B.S. degree in Medical Records Science from St. Louis University, has studied data processing at Temple University, and is a registered certified librarian.

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OPEN TIL 9:00 P.M.
Nixon spoke to the entire body on one of the first nights, but most people attending the conference boycotted some of the other scheduled meetings and broke into splinter groups to hold unscheduled and often aggressive sessions of their own. These meetings brought into focus the gaps between older and younger conferences. Unraveling noted and between white and black representatives.

Ralph Abernathy (NAACP leader) spoke about the black disaffection with treatment and rights of oppressed children.

At one point, the president of Malcolm X University charged that he was invited. A white woman was directing one of the splinter meetings.

“The younger, more militant members of the conference tried to monopolize some of the sessions,” Unraveling reported. “Women’s Liberation was also there.”

One conference, in answer to the volley of words said, “I am a woman, a Negro, a mother, and I think we have forgotten our own.”

The second day, Unraveling noted, “and we have to go back home after this is over and convince them we have not forgotten them.”

Unraveling said that the 78 members of Florida Sheldon delegation made some strong suggestions for child welfare legislation involving financed day care centers, more safeguards for children in institutions, children’s rights, divorce and custody law, as well as police and fire protection for children, and psychiatric assistance for their caretakers. This is not just a proposal but with parental consent and is already in the works.

Unfortunately, the Florida group also had to tender such proposals. A proposal to open 15 new schools was rejected.

Still, the idea that the Engineering Building had an unofficial title during Registration Week. Two talking shops that it wouldn’t “stick.” It was reported that it read “INSANITY BASE?”

INSANITY BASE?

Seems that the Engineering Building had an unofficial title during Registration Week. Two talking shops that it wouldn’t “stick.” It was reported that it read “INSANITY BASE?”

LITTLE MAN ON CAMPUS

The College of Natural Sciences will again offer a Science in Human Affairs Seminar that will be open to the public. The meeting on Thursdays, 9 a.m. to 9:30 a.m., will be held in the SCAUD on the FTU campus. The lectures are scheduled as follows:

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 19</td>
<td>The Cryogenic and Terrestrial</td>
<td>Dr. Charles Carter</td>
</tr>
<tr>
<td>January 26</td>
<td>Genetic Engineering</td>
<td>Dr. David Kahn</td>
</tr>
<tr>
<td>February 2</td>
<td>The Status of Venereal Disease</td>
<td>Dr. Norman Prather</td>
</tr>
<tr>
<td>February 9</td>
<td>NASA: Where to Now?</td>
<td>NASA Speaker</td>
</tr>
<tr>
<td>February 16</td>
<td>Interaction of Science and</td>
<td>Li. Col. McDonald</td>
</tr>
<tr>
<td>March 3</td>
<td>Engineering and Environmental</td>
<td></td>
</tr>
<tr>
<td>March 9</td>
<td>A Private Citizen’s View of the</td>
<td>Mr. T. W. Parington</td>
</tr>
</tbody>
</table>

For further information contact Dr. Frank Juge, College of Natural Sciences, FTU, 775-5691.

CAMPUS GLANCES

SKYDIVE! SKYDIVE! SKYDIVE! All interested skin and scuba divers interested in an FTU dive club are asked to sign up at the Club on Wednesday, February 23, 9 a.m. to 9:30 a.m.

The purpose of the club is to arrange low-cost dive trips for FTU students to both local and faraway diving spots. Possible dives include Kure Beach, Port St. Lucie, and lots of sand.

The FTU President reflected that those were extremely busy days, but everyone on staff working long, long hours and were trying to be as professional. Their only pay for the extra effort would be knowing that they were helping keep the new institution afloat that the BIG DAY — its opening in October 1968.

FUTurE Classifieds

To order classifieds, use the form below. Fill in the boxes allowing 1 box per each letter, space and punctuation mark. Count 2 boxes for capital letters. Don’t use hyphens at the end of a line (which contains 35 characters). Use additional forms if more than 6 lines are required. Minimum charge is $1.50 for 6 lines. For additional line add $2.50. Multiply the total by the number of words the ad is to run. Mail the ad, with check or money order for: Future Classifieds, Future, Florida Technological University, P.O. Box 25,000, Orlando, Fla. 32816, Payments made by cash are at the sender’s risk.

DEADLINE 3:00 Wednesday R. No.

DO NOT ORDER BY PHONE
With all the things Donna Dosh has to do in life, it's a wonder she has time to be as pretty as she is. Future's Friday Girl is a member of the Army, so she must be weatherized for all-weather protection.

"Rough-Out" is a term used to describe a type of coat made of Orlon like "Rougher" you'll be glad you ordered in a day or two. Marcie, 9-year old son Eli, and daughter Ashley, climbed into the Ivy station wagon and drove from Miami to Cleveland at the wheel of Daniel Boone at the beach. "If they could see me now..."

Argentine Student Says FTU 'Big'

His home is Buenos Aires, Argentina, where he attends the University of Buenos Aires (student of the Engineering College) at the University of Buenos Aires. He is here as part of an exchange program first begun by the late President Dwight D. Eisenhower, "People to People." Try this "Rough-Out" jacket; you'll be glad you ordered it. We offer it in warm-as-ambulance, lightweight Orion Acrylic pile lining and collar, with leather buttons and button patches. And it's weatherized for all-weather protection.

Guillermo said he likes it here at FTU. In the university is "beautiful," and he has found the people to be friendly.

The average untrained reader generally reads forty words a minute, more slowly than is needed for good comprehension. For example, the people to be considered for Who's Who are nominated by the students. Students who wish to take this course should come to the Developmental Center Reception Desk, Men's Dorm Area "C."
No Discrimination In Striking Sex Ratio

Out of 219 instructors at FTU 22 are women. The college of Education leads all Arts departments in the Humanities Sciences College are women, two Administration, five are women. Seven women are members of the 40 Humanities college instructors are women. Two of the 28 Social Science instructors are women, and Engineering has no women instructors.

The deans of the different colleges attribute this lack of qualified women applicants. Seventy percent of FTU's instructors have their doctorate, and according to the secretary to Dr. C. B. Gamble, vice president of Academic Affairs, FTU is trying to hire 100 percent of the instructors with their doctorate.

In the college of Engineering, the Dean's office said there had been no women applicants to fill any vacancies. Other college deans said the number of qualified women applicants, those with their doctorates and with teaching experience, had been small, and in selecting the most qualified instructors, most women had been eliminated from that base.

Some deans in the colleges where few women are employed, as well as the FTU Personnel office, suggested that the small number of applicants was due to few women being interested in the field. Engineering, for example, reported that the college had 28 women students. However, in the college of Education, two full-time women instructors have been hired — and many women students are enrolled in this college.

According to information from the office of Academic Affairs, pay scale is equal for qualified men and women instructors is the same.

Discrimination because of sex is prohibited by the 1964 Civil Rights Act, which also prohibited discrimination against race, color, or religion.

School Sessions Seminar Subject

An in-depth look at the controversial 12-month school year and its effect on students, teachers, and parents will be taken next March when educators and school administrators from across the country meet in Cocoa Beach for the third national seminar on your round education.

A program for the March 24-26 meetings is currently being framed up by the committee representing the sponsors of the seminar. The Florida Department of Education, FTU and the Brevard County School System.

A prime mover of the (forthcoming) seminar is Brevard School Superintendent, Dr. Wayne H. White, who developed the first such session three years ago in Fayetteville, Arkansas. Seminar coordination at FTU are Dr. C. C. Miller, dean of the College of Education, and Dr. Robert G. Cowgill, assistant dean.

The seminar said approximately 300-400 delegates are expected to attend the three-day seminar, which will offer "solid programming for both the newcomer and oldtimer in your round education," and its effect on students, teachers, and parents.

When he speaks of the old show, Smith becomes enthusiastic, and seems perhaps amused that the college students respond so joyously to his return. He was surrounded by a group of kids requesting autographs, asking some questions that they did not ask during the program. It almost looked like a reunion, in a sense, it was.

Stadium

(Continued from page 3)

also said that during the Alman Brothers concert the deputies arrested six persons for parking too near the bands and crowded the audience. The Jaycees also had a tent policy, but only in the role of chaperones.

After County Joe and the Fish gave their famous "Fish Cheer," the contracts between the bands and the stadium owners were altered so that we could make the group fulfill all payments to them if it was not possible to pay the band on stage. To make sure the event was legal going into the crowd, smoking was banned on the main stage in front of the stadium, and it was difficult for the authorities to reach, and lights were turned on in the dark area in the rear of the stage, thus making the chargin for the audience, the bands, and the directors of the light shows.

Finally, to make sure that there were no complaints about noise from late hours, a standing rule was made that the shows would cease promptly at 11:30 pm. Hayes said that sometimes that meant "pulling the plug" on performing performers. Still, the Orlando Police Department has been labeled a nuisance, but Hayes says that he feels the legal decision that is being requested will be just a on.

Chappell

(Continued from Page 1)

exclaiming his position too high. This would merit taking away his parental financial aid and putting him on his own. Chapell feels this is wrong, yet he would advocate a 15-year-old to be able to vote. When the draft is considered, he says that he would advocate a 15-year-old to be drafted. It is a more local issue when taken about major changes in state policy policy, however. When Chapell stated, "There is going to be a just one. requirements higher education can ________________ expect to face.

The Board of Regents report to the governor and the legislature in December, was just released last month. The 1980 statewide enrollment is expected to reach 300,000.

The Board of Regents report contains separate sections by presidents of each of the nine public institutions in the State University System (EUR). It also depicts graphically the expanding requirements higher education can expect to face.

FUTURE President Charles N. Millican reports on the programs that have accompanied a growth pattern that follows all the rest in the nation. Dividing the academic, the business, and the student affairs areas, FTU's report clearly contains separate sections in capsule form the day-by-day operations, plus the board of regents.

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Tech Mat Men Lose To BJC in 38-10 Upset

The Florida Technological University grapplers took on the wrestlers from Broward Community College of Fort Lauderdale in their first home meet Tuesday and lost 38-10. FTU, sporting new uniforms and a Broward in the campus Village Center to a standing room-only crowd of 350.

BCC, one of the strongest wrestling teams in the state, pushed its season record to 4-0, defeating FTU previously 40-10, the University of Florida and Tampa.

The BCC grapplers took an early lead when scholarship wrestlers Gerry Ringi and Joe Collins took their weight classes 118 and 126 respectively with pins. Ringi, 27, is a former all-service champ. He pinned FTU's Chris Salinas. Norton lost to Collins.

In the 138 weight class, FTU pulled an upset when Mike Denton pinned Gary Frasier, another BCC scholarship grappler. Mike Casey won a 3-0 decision over FTU's Scott Campbell in the 142 class.

Dwight Pfeiffer pinned the Knights' Bob Lecturer in the 150 class. FTU rallied in the 158 class when Fred Maust pinned Bob Johnson in 6 minutes. FTU also captured the 167, over Charlie Roberts; 190, over Ron Hirst; and 285, over Jim Weaver;

Although FTU's fledgling wrestling club lost to a highly rated Broward Community College, the Tech grapplers made a tremendous showing, as did the FTU student body that jammed every inch of the Multi-Purpose Room to view the first intercollegiate sporting event ever held on campus. (Photo by Jim Lehman.)

Knights Blast-pheme FBC, Take On Patrick Tonight

The FTU Knights, now 12-5, take on Patrick Air Force Base tonight at Satellite Beach and return home Saturday to face tough Fort Lauderdale University.

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The Women's Intramural Program at FTU will require you to turn in entry forms to deadlines of the sport. The council reminds girls to keep records of their scores, wins and losses. The Women's Intramural Advisory Council was organized to represent the girls and their needs to one representative who would submit girls' proposals to the administration.

The council consists of Dormitory Representatives Karen Mathews, Pamhellec Representative Cathy Eben, Commissioner Representative Linda Gabadd, and the Women's Intramural's Student Coordinator Dodie Glisson. If anyone has any questions, or needs assistance, contact Min Glohm (Ext. 4571).

The Intramural Office or call extension 2208.

Florida Bible College tried valiantly, but was no match for a faster Tech Knight team. (Photo by Jeff Albritton).

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FTU Lifts Cover
On Barebow Champ

The Southeastern Barebow Champion, Collegiate Gentleman, has been named for 1970. He is FTU's Tom Worthington.

FTU senior Worthington fired 1148 points to take the Men’s Barebow division of the Southeastern College Championship held in DeLand at Stetson University.

Worthington compiled rounds of 566 and 582 for his total while second placer Louis Do live of Fla. Bible College shot rounds of 524 and 556 for a 1080 total. There were nine schools and 43 students registered from the Southeast region.

Worthington did not come close to breaking the Men’s Barebow records, though. The highest round in a 678 by Indian River Junior College’s Paul Cornell.

Stetson captured the men’s, ladies’ and mixed team competition.

Within the state of Florida there are presently 12 colleges and junior colleges sending individuals to regional and state tourneys. This spring, Florida state titles will be up for grabs in competition at the University of Florida.

On April 24, Florida will host the 13-school “Intercollegiate Championships,” an amateur-only meet consisting of Men’s and Women’s two-Columbia rounds. No open class will be fielded this year.

Attending the meet need amateur cards are asked to write Bill Eulshing, President, U.F. Archery Club, P.O. Box 13243, University Station, Gainesville, Fla. 32601.

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**ATO Marathon Aids Telethon**

**Alpha Tau Omega’s basketball team have lost the battle, but the Central Florida Cerebral Palsy Fund received an additional boost toward winning their war.**

**ATO lost the second annual marathon basketball game played for the benefit of the Central Florida Cerebral Palsy Fund with 2,286 points to RC Cola’s combined teams total of 1,206.**

The game lasted from 9 pm Saturday to 11 am Sunday at the Winter Park YMCA.

Before the game, Royal Crown Cola announced that they would contribute a dime to the CP Fund for every point scored against them.

**ATO’s opponents consisted of area pick-up teams, YMCA league teams, which included the Orlando Panthers, Flyers, FTC Independents, GDI, and AA. After 19 hours of continuous running, shooting, and drinking Gatorade supplied by RC Cola, the final contribution was ATO’s $239 to the Central Florida Cerebral Palsy Fund.**

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**Schedule Announced**

**FTU at Patrick AF B**

**FTU at Palm Beach A.U.**

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OPEN, INFORMAL RUSH-WINTER QUARTER
TALKER IN GENERAL CLASSROOM BLDG.
JAN. 20th 7 - 9 P.M.
MEET THE GREEKS AND PICK THE FRATERNITY OF YOUR CHOICE
"ASK ANY GREEK ABOUT THE SYSTEM"
GO GREEK