

TO CITIES WITH VITAL WAR DUTIES



## YOU CAN OBTAIN YOUR GENERAL ELECTRIC FM POLICE RADIO NOW!

• A limited quantity of the finest FM emergency-communication equipment that General Electric electronics engineers have ever built is ready now for your state, county, and municipal police and fire departments. This is a new, All-American design, built around important design suggestions from hundreds of emergency-communication radio users.

Deliveries can be arranged from the Defense Supplies Corporation Radio Reserve Pool for communities with a real need . . . a need based on

war-multiplied civil, industrial, and military activities.

General Electric one-way or two-way FM police radio is of higher efficiency . . . easier operation . . . longer range . . . and maximum dependability. And FM—Frequency Modulation—greatly reduces the nuisances of man-made and natural static, interference or "cross-talk," fading, and background noises.

### EASY FOR YOU TO ORDER

You do not need a WPB priority for

this new General Electric FM equipment. A special Government procedure has been set up to speed the tapping of the Radio Reserve Pool as soon as your need is established.

For complete instructions and the proper allocation request forms, either inquire directly at your nearest G-E office, supply house, apparatus agent, or distributor, or write at once to us. But act quickly! Radio, Television, and Electronics Department, General Electric Company, Schenectady, New York.

### Features of the new G-E FM emergency-communication equipment

- 1 Extended communication range
- 2 Accurate initial tuning
- 3 Easy to install, adjust, test, service
- 4 Low battery drain
- 5 Takes less space in car trunk
- 6 Thoroughly tested under all conditions

G. E.'s outstanding new FM emergency-radio combination

**TWO-WAY MOBILE COMBINATION MC-1. 30 WATTS.** What you get: 1. Transmitter. 2. Receiver. 3. Battery cable. 4. Speaker. 5. Antenna interconnecting lead. 6. Microphone (airplane-type). 7. Antenna cable. 8. Control unit. 9. Control cable. 10. Quarter-wave antenna.

Also twelve other FM mobile and station combinations



FM Police Radio • FM Broadcast Equipment • FM Home Radio • FM Broadcasting • FM Military Radio  
NO OTHER MANUFACTURER OFFERS SO MUCH FM EXPERIENCE

GENERAL  ELECTRIC

163-A1-8978

# GENERAL ELECTRIC

## Electronics Department Offices in:

Atlanta 3, Ga. • Boston 1, Mass. • Chicago 54, Ill.  
• Cincinnati 2, Ohio • Cleveland 4, Ohio • Dallas  
2, Texas • Denver 2, Colo. • Detroit 26, Mich. •  
Kansas City 6, Mo. • Los Angeles 14, Calif. •

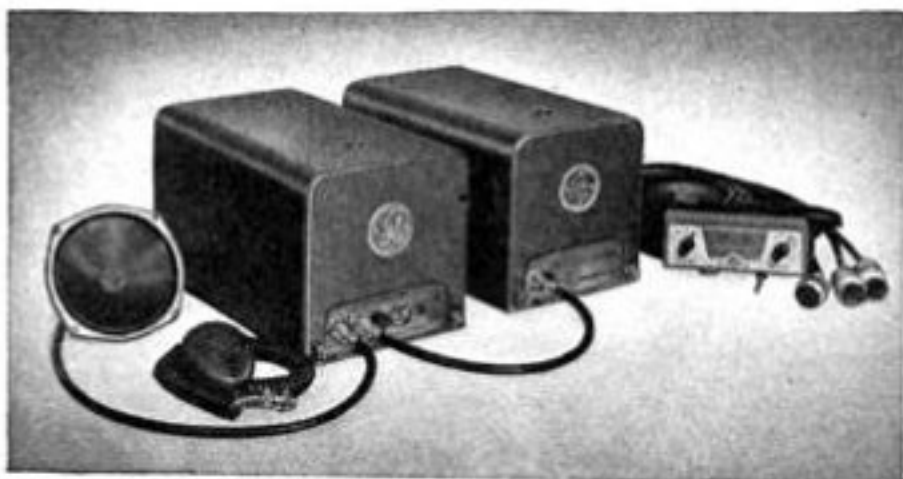
**ELECTRONICS PARK  
SYRACUSE, N. Y.**

Minneapolis 2, Minn. • New York 22, N. Y. •  
Philadelphia 2, Pa. • Salt Lake City 9, Utah •  
San Francisco 4, Calif. • Schenectady, N. Y. •  
Seattle 4, Wash. • Syracuse 1, New York •  
Washington 5, D. C.

In Canada, Canadian General Electric Company, Ltd., Toronto, Ont.

Outside the U. S. A. and Canada, by International General Electric Company, Inc., Electronics Dept., Schenectady, New York, U. S. A.

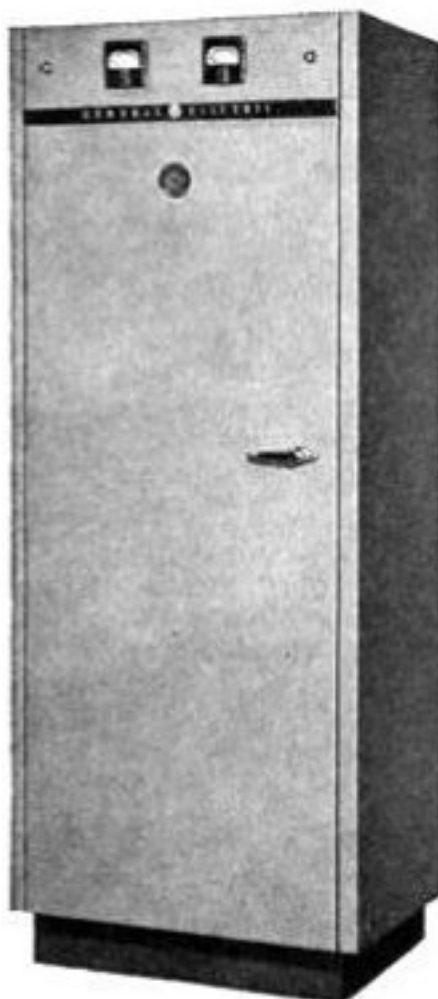
## **2-WAY RADIO** for time-saving communication



**25-50 MC MOBILE**—General Electric Mobile Combination for operation in the 25-50 mc band. These combinations consist of the receiver, 30 (or 50) watt transmitter, loud speaker, microphone with retractable cord, antenna cables, control unit, antenna, and power and control cables. Designed to withstand the grueling road-shock of day-in, day-out operation.

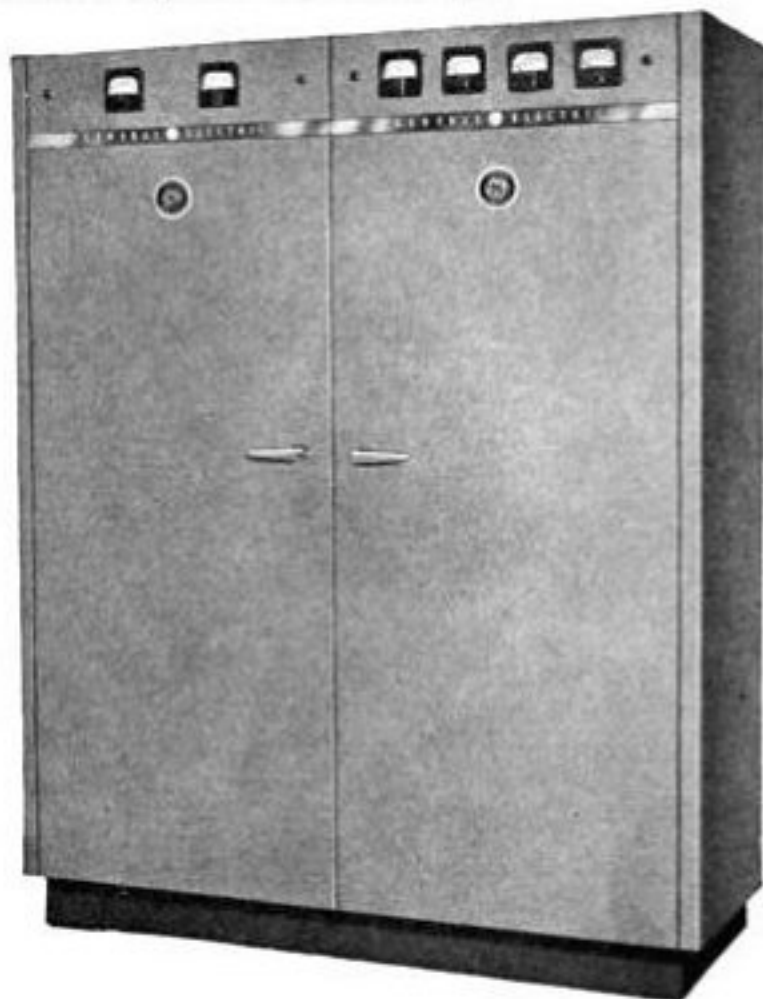


**GENERAL ELECTRIC MOBILE COMBINATION MC-201** for dependable operation in the 152-162 mc band. Features single unit design with receiver, transmitter and power supply mounted mechanically on one main chassis. Electrical connection is made instantly through G-E special-design plug-in feature. MC-201 consists of receiver, transmitter, power supply, loud speaker, microphone with retractable cord, antenna, control unit, power and control cables.



◀ **GENERAL ELECTRIC 50 WATT STATION COMBINATION** for use in the 25-50 mc or 152-162 mc band. Consists of 50 watt transmitter, receiver, local or remote control terminal equipment and extra space for additional receivers or accessory equipment. Height, 66 inches; width, 24 inches; depth, 20 inches. Designed for "block-building" so that the simple addition of a 250 watt amplifier will boost the power output rating.

**GENERAL ELECTRIC 250 WATT TRANSMITTER-RECEIVER STATION COMBINATION** for the 25-50 mc or 152-162 mc bands. The cabinet contains a 250 watt power amplifier, 50 watt exciter, receiver, local/remote control equipment and ample space for additional receivers or accessory equipment. Height, 66 inches; width, 48 inches; depth, 20 inches. ▶



*General Electric manufactures a complete line of radio communication equipment and accessories.*

In addition to the combinations shown on this page, and of special interest, are a desk cabinet 50 watt station, a polemounted outdoor type station, a portable trunk unit and a weather proof housing for vehicular mounting. For complete information, call your nearest G-E office or write: *General Electric Company, Transmitter Division, Electronics Park, Syracuse, New York.*



**"AND A VOICE SHALL BE HEARD!"**  
 produced by  
**THE MARCH OF TIME**



## **G-E CIVIL DEFENSE FILM AWARDED FREEDOMS FOUNDATION PUBLIC SERVICE MEDAL**

**Outstanding public service release currently available  
 for civic and industrial showings**

**M**ORE than 10 million people have seen General Electric's civil defense film showing how a city prepares its communications network for vital disaster service. A dramatic documentary, the 22-minute motion picture stresses the role of communications in everyday life, depicts an atomic blast over Syracuse, N. Y. and demonstrates how the existing communication systems of a city and a county can be coordinated in an emergency. The film is a part of the nation-wide Communications Advisory Service, a G-E organi-

zation of electronics engineers whose consultation services are available to communities and industries of every size.

*One of the most popular films in G-E history, "Voice" is being sponsored by civic and industrial groups across the nation to stimulate public interest in civil defense. If you want it for your community at only nominal cost for mailing, call the CAS\* man at the G-E office near you, or write us. General Electric Company, Section 43112, Electronics Park, Syracuse, New York.*

*\*Communications Advisory Service*



Freedoms Foundation president Kenneth D. Wells, presents award scroll to Roy D. Jordan (center), secretary of G.E.'s Electronics Division CD Committee, and Neal F. Harmon, G.E.'s CD Coordinator.



The film shows evacuation of residents from the city by taxicab after the atom "blast" plus many other eye-opening scenes. Will your city be prepared? Be sure to see this timely civil defense film.



Lt. General Willis Crittenger, commanding First Army, with G.E. Vice-President W. R. G. Baker on nationwide TV showing of film. More than 30 TV stations have screened the picture as a public service.

**GENERAL**  **ELECTRIC**



# 2-WAY RADIO

It alerts . . . It activates . . . It ties together—your entire Civil Defense Communications Network!



## GE Civil Defender

**A Receiver for all defense applications!**

**W**HEN you need command control of all the elements in your civil defense area, let electronics work for you—like this:

Install a **Civil Defender** receiver with each group to be reached. This receiver is a slave unit. It hears only what you want it to hear. It allows civil defense headquarters to broadcast messages to all groups at once, or to separate groups individually. The receiver is inactive until turned on by headquarters.

The **Civil Defender**, a unique G-E development, is activated at the press of a button. You can use it to start and stop air raid warning devices automatically and simultaneously.

Every alert community official should see this remarkable device in action. The G-E office near you will arrange a demonstration. For bulletins, wire or write us: *General Electric Company, Section 1071, Electronics Park, Syracuse, New York.*

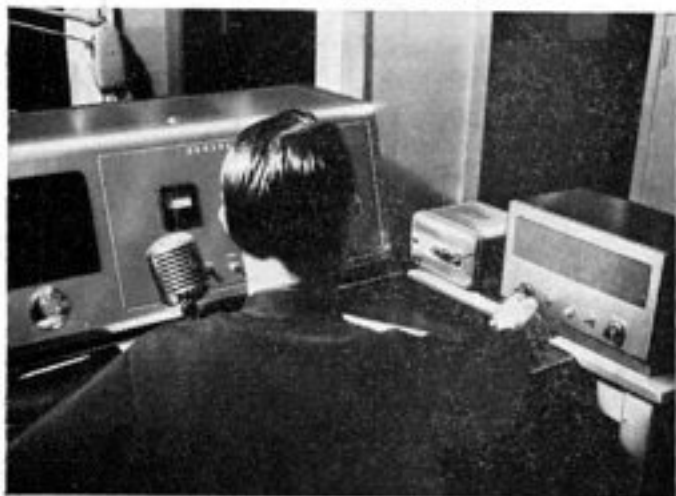
**Your G-E Communications Man will demonstrate.  
Why not call him now?**

*You can put your confidence in—*

**GENERAL  ELECTRIC**



At TAXI Dispatching Boards . . .



at HIGHWAY Departments . . .



at POLICE and FIRE Headquarters!

# G.E. DEVELOPS NEW PLUG-IN CHASSIS FOR 2-WAY RADIO

**NEW PROGRESS LINE** saves money on maintenance through faster servicing—protects from obsolescence because chassis are quickly interchangeable.

**I**n the new Progress Line, transmitter, receiver, power supply and optional chassis are individually rack-mounted in a triple-rigid mobile case. Rapid interchangeability is provided by this rack construction and true plug-in chassis. This plug-in design permits changes in frequency, power, type of reception (narrow or wide band) quickly *at minimum cost, at any time.* You're free of any obsolescence risk!

You may switch Progress Line mobile units—whether front or trunk mount, between vehicles with 6 or 12 volt DC systems. No electrical alterations are needed. And any mobile combination can be converted quickly to a low-cost, 117 volt AC intermittent duty base station by changing only the power supply chassis!

Let a G-E Communications Counselor analyze your radio needs and develop an installation or conversion program planned for long-run savings. Write or call today for full specifications on the new **PROGRESS LINE**. *General Electric Company, Communication Equipment, Section X3866-1, Electronics Park, Syracuse, N. Y.*



**INDIVIDUAL PLUG-IN CHASSIS** minimize capital investment in spares and reduce radio maintenance time! Your vehicles will be back "in service" faster. For instance, you can replace either a transmitter or receiver plug-in chassis right in the vehicle in 5 minutes—using only a screwdriver. Individual plug-in chassis of the new General Electric Progress Line units also provide complete interchangeability between mobile and station transmitters and receivers.



◀ There is a G-E Authorized Service Station near you. Look for this sign.



**EASY FRONT MOUNTING** under the dash. The new G-E Progress Line case is less than 15" deep. For the first time you can have a 90-watt front mount mobile unit in the 25-54 MC band and a 50-watt front mount mobile unit in the 144-174 MC band. In the 25-54 MC band you can now have simultaneous monitoring of 2 channels, in the same case, without additional equipment.

*Progress Is Our Most Important Product*

**GENERAL  ELECTRIC**



# Turn your skills into profit

## servicing G-E Two-Way Mobile Radio



G-E Service Station operator Floyd Ziehl, W2RUI, a second class Commercial Radio Operator and 30-year amateur veteran, installs new 450 mc pre-amplifier containing General Electric's new 7077 micro-miniature tube in a mobile unit. Servicemen are kept up-to-date on new and advanced units like this by a constant flow of information from the General Electric National Service Manager.

Thousands of new mobile radio systems are being installed every year—for delivery services, salesmen, taxis, gas and electric utilities, industrial and construction vehicles, and many other uses. All these systems require *service*—service your unique background and knowledge can be easily adapted to provide.

Servicing two-way radio can be a full-time vocation, or a profitable sideline. Many highly successful General Electric mobile radio service stations were founded by licensed radio amateurs, and many now utilize the skills of hams such as yourself on a part-time basis as well as full-time. Working in an authorized G-E Service Station is also an ideal way in which to prepare for the second or first class Commercial Radio Operator's license, required for commercial mobile radio servicing.

G-E two-way radio equipment is designed and built with the serviceman in mind. General Electric's famous Progress Line, for example, features interchangeable rack-mounted transmitter, receiver and power supply for fast servicing. G.E.'s new line of transistorized portable and mobile equipment offers even greater service advantages.

**Find out how you can become an authorized G-E serviceman. Write National Service Manager, General Electric Company, Communication Products Dept., Section 39, Mountain View Road, Lynchburg, Virginia.**

*Progress Is Our Most Important Product*

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## After exhaustive tests, Fort Monmouth electronic experts chose this two-way radio



The first narrow band FM radio systems at Fort Monmouth, the U. S. Army's leading electronics technological center, have been supplied by General Electric.

A professional team, consisting of engineering personnel, electronic technicians and maintenance people, carefully tested, analyzed, compared and evaluated several makes of two-way radios. General Electric's two-way radio equipment was chosen because it best met the needs of the post.

Selection was based on the following: low battery drain • power output and sensitivity • mounting versatility • rugged construction • compact, attractive design • low cost, simplified maintenance • reliability under extreme conditions • present customer performance record... and General Electric ranked highest overall.

If you want additional proof of the superiority of General Electric equipment, just contact your G-E communications consultant listed in the Yellow Pages under "Radio Communications." He'll gladly demonstrate our mobile radios, two-way portables, pocket-sized paging units and transmitters, base stations and other equipment. Or write: General Electric Company, Communications Products Department, Section 2103, Lynchburg, Virginia.

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## New General Electric two-way radio for businessmen costs only \$419<sup>00</sup>

*Increase your efficiency and profits for less than \$9 a month per vehicle*

The new General Electric Pacer two-way mobile radio costs only a small fraction of what a driver and his vehicle costs you. Yet it will save many miles of useless travel and many minutes of wasted time each day.

Two-way radio cuts down on backtracking and deadheading. A radio-dispatched truck can make more pickups and deliveries. An "outside man" can make more calls and more sales. You have instant — and constant — control over men and vehicles, wherever they are.

The General Electric Pacer is a full quality FM two-way mobile radio, giving you communication

range comparable to more expensive sets. It is small enough to fit even the compact cars with ease.

Especially suitable for businesses with as few as one or two vehicles, there are several financing and leasing plans available from General Electric, including one lease arrangement for \$8.42 a month for each General Electric Pacer radio. Maintenance service is available everywhere.

To learn the complete details on the new, low-cost General Electric Pacer, look under "Radio Communication" in the Yellow Pages. Or write General Electric Company, Communication Products Department, Section 3231-20, Lynchburg, Virginia.

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# We don't make amateur radio equipment

But, like you, the Communication Products Department of General Electric is vitally interested in the field of communications.

General Electric started the two-way radio business. And, as the world's largest electronics manufacturer and the largest manufacturer of electrical equipment, we have been a leader in the development of communications equipment and systems.

We make communications equipment for government, industry, and individuals. Microwave systems, power line carrier, and two-way radios. G.E. has a full line of professional communications equipment for almost any situation.

Where's it used? Anywhere in the world. In Viet Nam, in the oil fields of Iran, in your home town. And General Electric offers fast, efficient service around the world.

So, even though we don't make your amateur radio equipment, keep us in mind. Maybe you buy communication equipment in your business. Or, perhaps you would like to add your talents to those of many other radio amateurs now working for General Electric in Lynchburg, Va., and around the world. In either case, direct your inquiry to General Electric Co., Communication Products Dept., Section 318, Lynchburg, Va.

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# People are talking

## about General Electric's new MASTR Personal Series two-way radio

They're saying that it's a lot of radio.

Because both solid-state VHF and UHF models are the most powerful personal radios available today—4.5 watts output in VHF and 2 watts in UHF—less than 50 cubic inches in size!

Integrated circuits—up to 17—perform the work of more than 300 discrete components. This means seven times fewer wiring connections, resulting in a dramatic increase in reliability.

It's rugged, too. The fully weather-proofed Personal Series radio case—made of LEXAN<sup>®</sup>—is thoroughly tested to exceed every industry standard for impact and shock resistance.

The custom-fitted rechargeable battery pack will take you through an eight-hour working day, plus a couple of hours of overtime. If you work through the night and are away from your charger, you can insert "C" size alkaline cells in place of the rechargeable battery pack.

Or, an exclusive optional "Fast" charger will replenish your rechargeable battery pack to 70% of capacity in *only 15 minutes!*

Other optional features include charging provisions for mobile operation, single or multi-unit desk chargers, remote push-to-talk and microphone, four frequency operation, channel guard, Type 90 or 99 tone signalling, and hands free VOX operation. In fact, 200 different variations can be specified to fit your needs—all in the single-size 49 cubic inch case.

Standard features of all models include hi-lo output power selector for extending battery life, automatic external antenna connection when radio is in a mobile or desk charger, impact-resistant LEXAN case, and more.

Before you buy your next personal radio—check out the MASTR Personal Series. You deserve to go First Class.

Call your GE Communications Consultant listed in the Yellow Pages under "Radio Communication."  
Or write General Electric Company, Mobile Radio Dept., Section 279, Lynchburg, Va. 24502

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# Porta-Mobil II™

... when performance is more important than price. When you want the finest portable two-way radio and are willing to pay for it, ask for General Electric's Porta-Mobil II.

Where else can you get a portable radio with up to 12 frequency transmit and 12 receive, 20 watts of RF power, 10 watts of audio power, optional built-in hailer and battery indicator, quick disconnect rechargeable battery with 8-hour duty cycle at 5-5-90? And — in a rugged, completely submersible package weighing only 9.6 pounds and measuring only 8 by 8 by 4.5 inches? And — with an array of options unmatched in the industry, options such as busy light, multi-tone Channel Guard, Search Lock Monitor, dual front end, Type 90 and Type 99 encode and decode, Carrier Operated Relay, and many, many more?

In fact, if you can find a finer portable than Porta-Mobil II on the market today, we'd suggest you buy it. If there is one, we haven't heard about it!



GENERAL  ELECTRIC

# THE HANDIER ONE...

GE's new MASTR Personal/Mobile Two-Way Radio.  
Adds a New Twist in Personal Communications.



Here it is. 5½" small, 17 oz. light. Thick-film integrated-circuit modular construction with connections to a common mother board for maximum reliability.

You get output up to 2W.

The whole works is enclosed in tough GE LEXAN® housing.

And quick-change twist-lock battery packs allow you to choose power output, duty cycle and operational time—a new twist and new dimensions in personal communications.

Get your hands on the handier one. Call your GE Communications Consultant, in the Yellow Pages under "Radio Communication." Or write General Electric Company, Mobile Radio Department, P.O. Box 4197, Lynchburg, Virginia 24502.



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