



INSTRUCTIONS

GEI-25372B

SUPERSEDES GEI-25372A

TEST PLUGS

FOR

DRAWOUT RELAYS AND METERS

Types
XLA12A
and
XLA13A

SWITCHGEAR DEPARTMENT

GENERAL  **ELECTRIC**

PHILADELPHIA, PA.



Fig. 1 XLA12A Test Plug

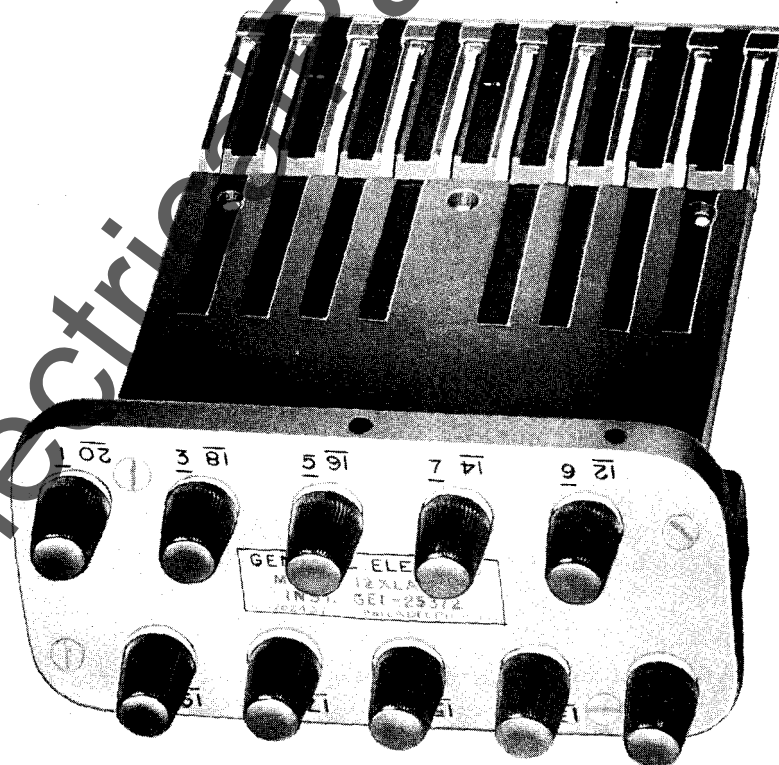


Fig. 2 XLA13A Test Plug

Fig. 1 (8005524)

Fig. 2 (8024186)

TEST PLUGS FOR DRAWOUT RELAYS AND METERS

TYPE XLA

APPLICATION

The Type XLA test plugs are used to test drawout relays and meters. The XLA12A enables power to be applied to the relay from either a separate source or the source that feeds the equipment. The XLA13A can only be used when a separate source of power is available.

CONSTRUCTION

XLA12A

The XLA12A test plug consists of a black and red Textolite* molding with twenty electrically separate contact fingers connected to ten concentric binding posts. The ten contact fingers on the black side are connected to the inside binding posts with the black thumb nuts and engage the relay internal connections. The contact fingers on the red side are connected to the outer binding posts with the red thumb nuts and engage the equipment case stud connections. See Fig. 1. The concentric binding posts are numbered on the nameplate, and the corresponding contact fingers are numbered on each side of the test plug. When using the test plug in the bottom of the relay, numbers one to ten, corresponding to the relay studs, appear upright, while numbers eleven to twenty are upside down. It is impossible, due to its construction, to insert the plug into the bottom of a relay with numbers one to ten up-side down. By the same token, numbers eleven to twenty will always appear in the up-right position when the plug is inserted in the top of a relay.

Removable test links for through connection, test clips and short-circuiting clips are furnished with each test plug. See Fig. 4.

XLA13A

The XLA13A test plug consists of a black Textolite* molding with ten electrically separate contacts. Each contact terminates at a separate binding post. See Fig. 2. When the relay connecting plug is withdrawn any current transformer secondaries will be short circuited by shorting bars in the case. The insertion of the XLA13A test plug does

not disturb the current transformer shorting arrangement. The diagonally staggered binding posts are numbered. Numbers one to ten, corresponding to the relay stud connections, appear up-right when using this plug in the bottom of a relay, while number eleven to twenty appear up-side down. Because of its design, the XLA13 test plug cannot be inserted into the bottom of a relay with numbers one to ten up-side down. Thus, the contacts of the inserted plug will always be toward the relay.

TESTING

Routine testing can be accomplished by removing the relay cover and substituting either test plug for the connecting plug.

XLA12A

Several pieces of hardware are supplied with this test plug (See Fig. 6). The U-shaped link is used to make through connections, relay stud to case terminals. The long, open end link is used to short circuit any current transformers and any normally closed contacts. This link must be inserted in the proper place under the red thumb nuts before the test plug is inserted in the unit. Two sizes of corrugated end links are provided so standard test clips can be used. These links are also provided with a hole so that a secure bolted connection may be obtained.

Typical separate source test connections and wiring diagram for TYPE IAC overcurrent relays are shown in Fig. 3.

A conventional representation of test connections used on wiring diagrams is shown in Fig. 9. An outline of this plug is shown in Fig. 11.

XLA13A

No external provisions need be made for shorting current transformer secondaries or any normally closed contacts because the plug is so designed that the side away from the relay to be tested does not come into contact with any of the connecting fingers in the case. Power source connections can be secured to the studs of the plug by the black thumb nuts.

* Reg. Trade-Mark of General Electric Company

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

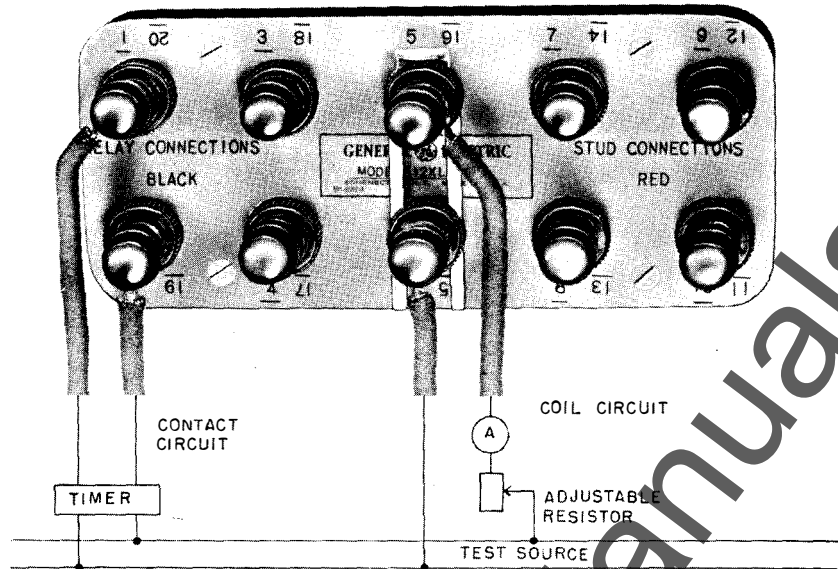


Fig. 3 Typical Separate Source Connections and Wiring Diagram for Testing an IAC Overcurrent Relay Using the XLA12A Test Plug

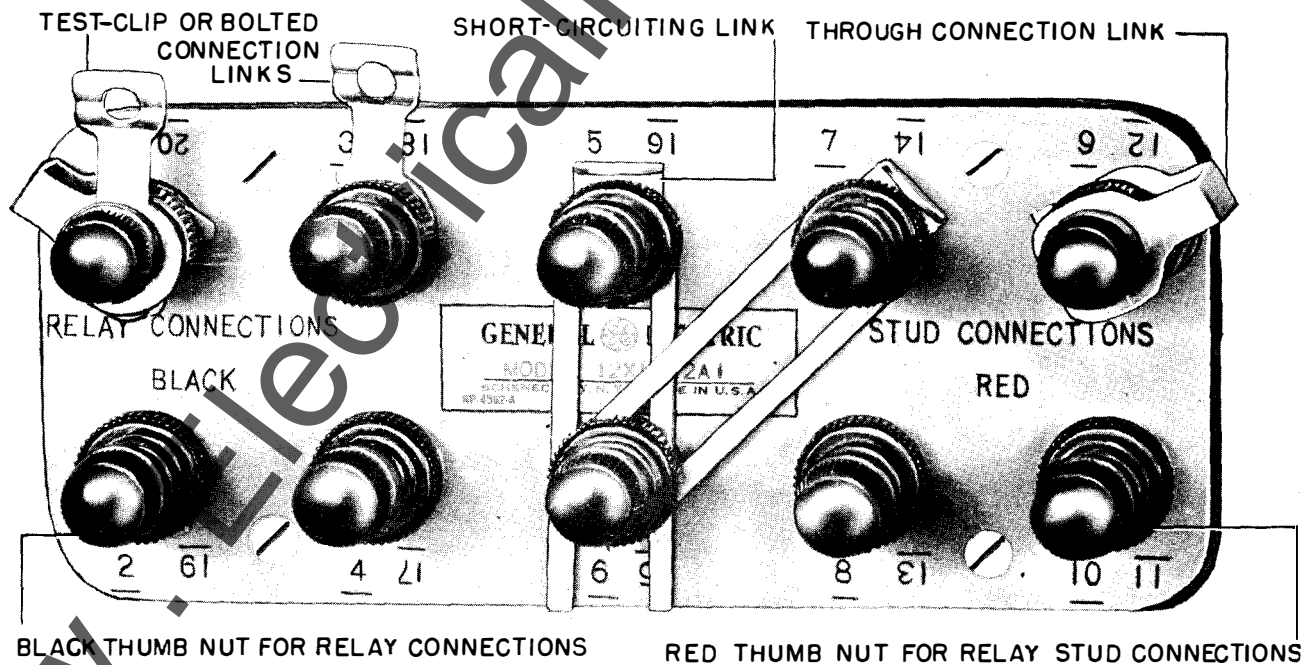


Fig. 4 Test Links in Use on the XLA12A Test Plug

Fig. 5 (8024187)

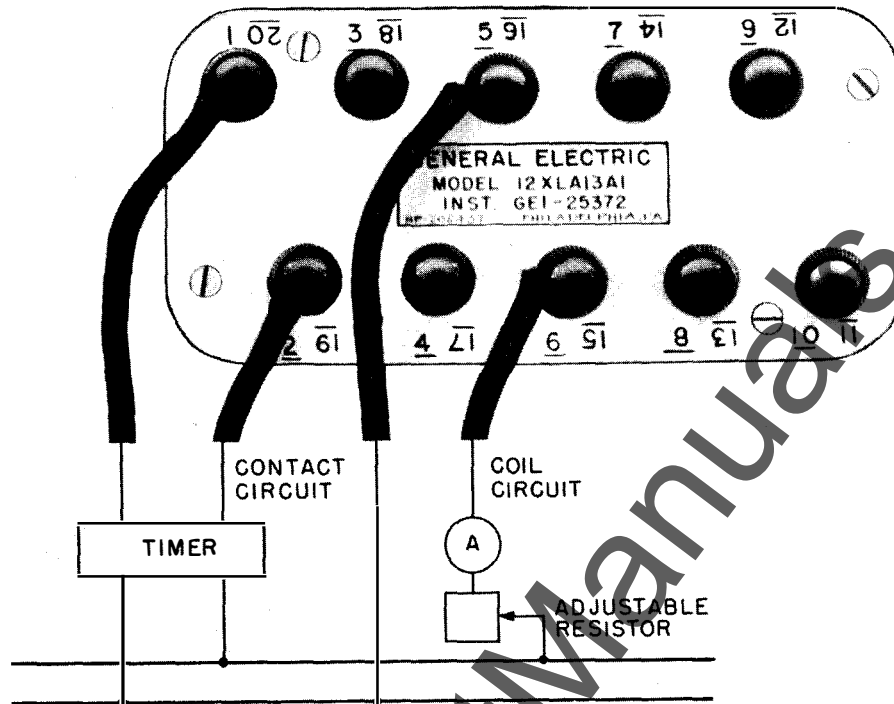


Fig. 5 Typical Separate Source Connections and Wiring Diagram for Testing an IAC Overcurrent Relay Using the XLA13A Test Plug

Typical separate source test connections and wiring diagram for Type IAC overcurrent relays are shown in Fig. 5.

A conventional representation of the XLA13A test plug connections used on wiring diagrams is shown in Fig. 10.

An outline diagram of the XLA13A test plug is shown in Fig. 12.

SHIPPING - UNPACKING

Type XLA test plugs are shipped in individual cartons which may be used for storage. All neces-

sary hardware is packed in the individual carton.

Immediately upon receipt of the test plug, an examination should be made for any damage sustained in transit. If injury or rough handling is evident a damage claim should be filed at once with the transportation company and the nearest General Electric Sales Office should be notified.

RENEWAL PARTS

Orders for renewal parts, should be addressed to the nearest Sales Office of the General Electric Company, giving the name of part wanted, quantity required and complete nameplate data.

Fig. 6 (8005525)

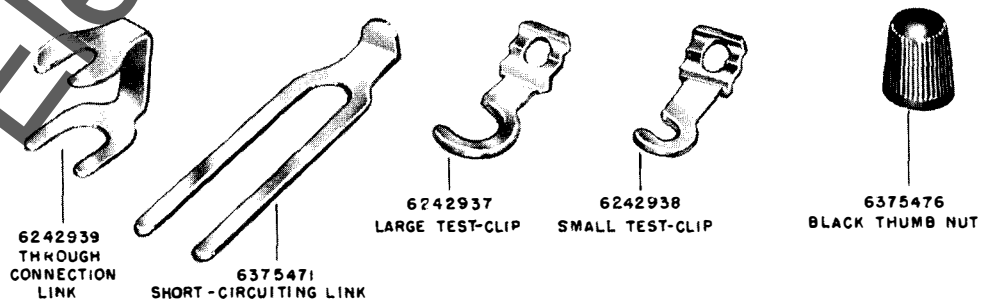


Fig. 6 Accessory Links for the XLA Test Plugs

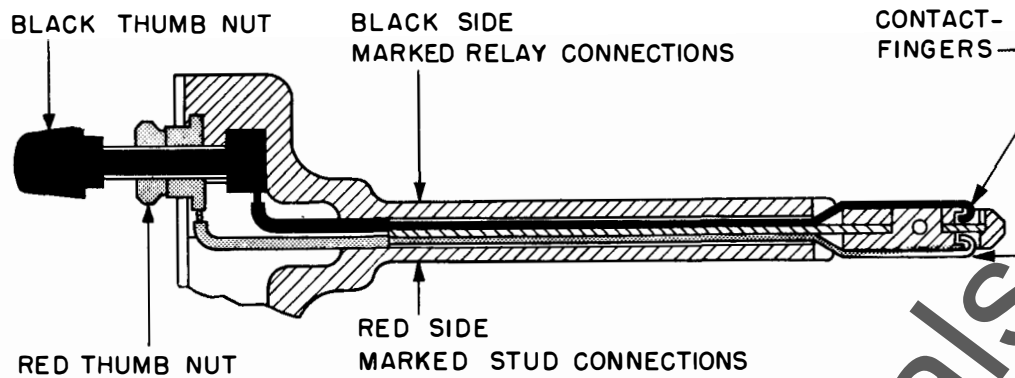


Fig. 7 Sectional View of XLA12A Test Plug Showing Internal Wiring

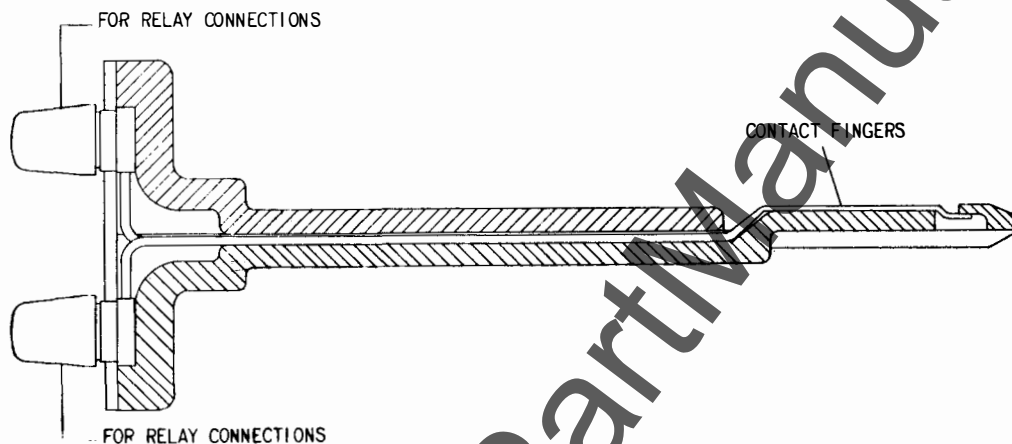


Fig. 8 Sectional View of XLA13A Test Plug Showing Internal Wiring

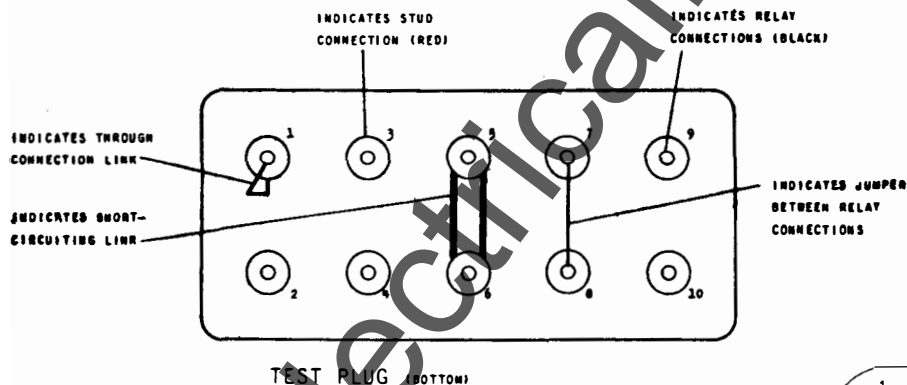


Fig. 9 Conventional Representation of XLA12A Test Plug Connections

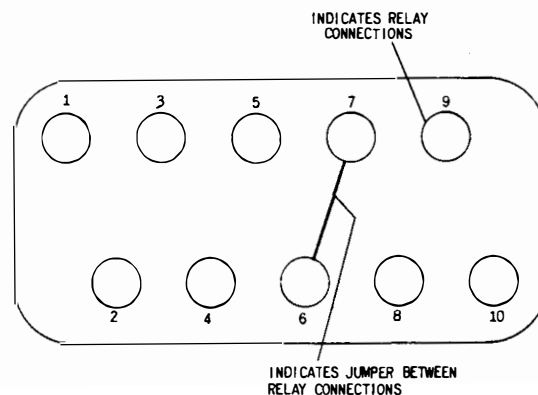


Fig. 10 Conventional Representation of XLA13A Test Plug Connections

Fig. 8 (459A246)

Fig. 9 (K-6375616)

Fig. 10 (459A245)

Fig. 11 (K-6305856)

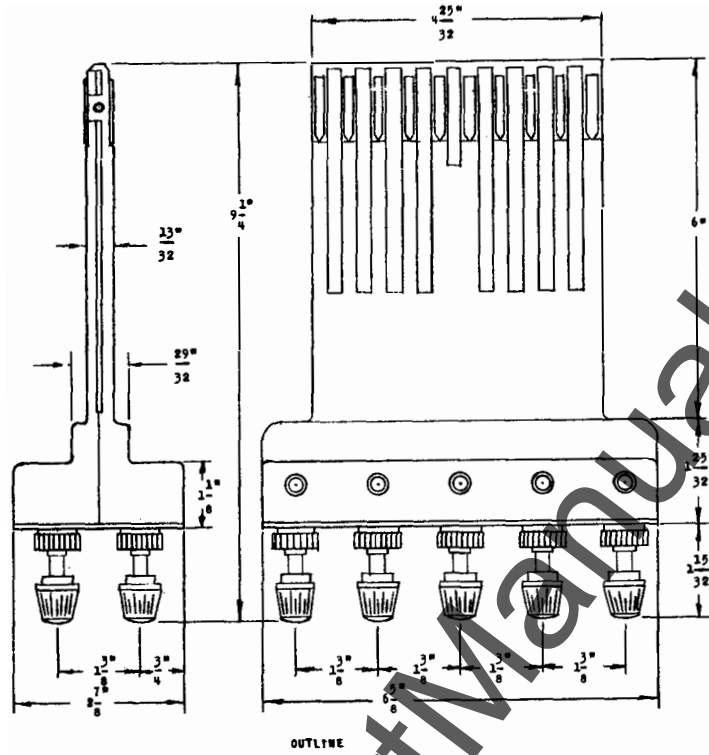


Fig. 11 Outline of the XLA12A Test Plug

Fig. 12 (459A230)

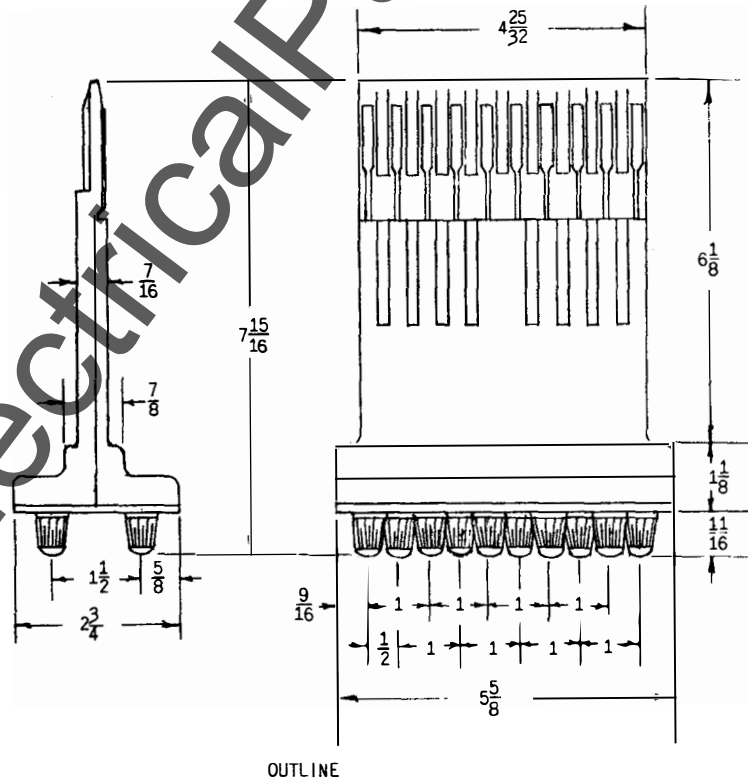


Fig. 12 Outline of the XLA13A Test Plug

GENERAL ELECTRIC SALES OFFICES

GEZ-2500L

READY TO ASSIST YOU . . . When You Have Electrical Problems . . . Need Further Information . . . Require Ordering Instructions

SALES OFFICE CODE KEY
 * Industrial Equipment (including Agent and Distributor) Sales
 † Electric Utility Equipment Sales
 ‡ Marine and Defense Equipment Sales
 †† Component Sales Operation

ALABAMA		
* ††	Birmingham 35205	2151 Highland Ave.
* ††	Mobile 36602	704 Government St.
ARIZONA		
* ††	Phoenix 85012	3550 N. Central Ave.
* ††	Tucson 85711	151 S. Tucson Blvd.
ARKANSAS		
* †	North Little Rock 72114	1900 E. Washington
†	Pine Bluff 71602	P. O. Box 1033
CALIFORNIA		
* ††	Fresno 93728	1532 N. West Ave.
* ††	Los Angeles 90054	212 N. Vignes St.
* ††	Los Angeles 90005	3325 Wilshire Blvd.
* ††	Oakland 94612	409 Thirteenth St.
* ††	Redwood City 94063	35 Veterans Blvd.
* ††	Sacramento 95816	2407 "J" St.
* ††	San Diego 92103	2560 First Ave.
* ††	San Francisco 94106	235 Montgomery St.
* ††	San Jose 95128	2155 So. First St.
COLORADO		
* ††	Denver 80201	201 University Blvd.
CONNECTICUT		
* ††	Hamden 06518	2905-2921 Dixwell Ave.
* ††	Hartford 06105	764 Asylum Ave.
DISTRICT OF COLUMBIA		
* †	Washington 20005	777-14th St., N.W.
FLORIDA		
†	Cocoa Beach (Cape Canaveral Office)	1325 N. Atlantic Ave.
* †	Coral Gables 33146	250 Bird Road
* †	Jacksonville 32202	1901 Hill St.
* †	Miami 33134	4100 West Flagler St.
* †	Pensacola 32503	First Bank Bldg.
* †	Tampa 33609	Henderson Blvd. at Lois Ave.
* †	Tampa 33609	2106 S. Lois Ave.
GEORGIA		
* ††	Atlanta 30309	1860 Peachtree Rd., N.W.
* ††	Macon 31202	682 Cherry St.
* ††	Savannah 31405	5002 Paulsen St.
IDAHO		
* †	Boise 83706	1524 Idaho St.
ILLINOIS		
* ††	Chicago 60680	840 S. Canal St.
* ††	Peoria 61603	2008 N.E. Perry Ave.
* ††	Rockford 61105	4223 East State St.
* †	Springfield 62701	607 E. Adams St.
INDIANA		
* ††	Evansville 47714	2709 Washington Ave.
* †	Fort Wayne 46807	1635 Broadway
* †	Fort Wayne 46806	3606 S. Calhoun St.
* ††	Indianapolis 46207	3750 N. Meridian St.
* †	South Bend 46601	430 N. Michigan St.
IOWA		
* ††	Cedar Rapids 52401	210 Second St., S.E.
* ††	Davenport 52805	1039 State St., Bettendorf, Iowa
* †	Des Moines 50310	3839 Merle Hay Rd.
* †	Sioux City 51101	520 Pierce St.
KANSAS		
* †	Wichita 67211	820 E. Indianapolis Ave.
KENTUCKY		
* †	Lexington 40503	465 E. High St.
* †	Louisville 40218	2300 Meadow Dr.

LOUISIANA		
* †	Alexandria 71302	720 Murray St.
* †	Baton Rouge 70815	633 Oak Villa Blvd.
* †	Lake Charles	1424 Ryan St.
* †	New Orleans 70112	837 Gravier St.
* †	New Orleans 70125	4747 Earhart Blvd.
* †	Shreveport 71101	400 Travis St.
MAINE		
* †	Augusta	152 State St.
* †	Bangor 04402	77 Central St.
MARYLAND		
* ††	Baltimore 21201	1 North Charles
* ††	Hagerstown	49 East Franklin St.
MASSACHUSETTS		
* ††	Boston 02117	31 St. James Ave.
* †	Springfield 01103	120 Maple St.
* †	Worcester 01605	288 Grove St.
MICHIGAN		
* ††	Detroit 48202	700 Antoinette St.
* ††	Flint 48503	316½ W. Court St.
* †	Grand Rapids 49508	2821 Madison Ave., S.E.
* †	Jackson 49201	210 W. Franklin St.
* †	Kalamazoo	927 S. Burdick St.
* †	Lansing 48901	501 Bank of Lansing Bldg.
* †	Saginaw 48607	Second National Bank Bldg.
MINNESOTA		
* †	Duluth 55802	14 W. Superior St.
* †	Fergus Falls 56537	106 E. Washington St.
* †	Minneapolis 55402	12 S. Sixth St.
MISSISSIPPI		
* †	Gulfport 39502	P.O. Box 33
* †	Jackson 39201	210 S. Lamar St.
MISSOURI		
* †	Joplin 64802	212½ W. Fifth St.
* †	Kansas City 64105	106 W. Fourteenth St.
* †	St. Louis 63101	1015 Locust St.
MONTANA		
* †	Billings 59101	303 N. Broadway
* †	Butte 59701	103 N. Wyoming St.
NEBRASKA		
* †	Omaha 68102	409 S. Seventeenth St.
NEVADA		
* †	Las Vegas 89106	1711 S. 8th St.
NEW HAMPSHIRE		
* †	Manchester 03104	1662 Elm St.
NEW JERSEY		
* †	East Orange 07017	26 Washington St.
NEW MEXICO		
* †	Albuquerque 87108	120 Madeira Drive, N.E.
NEW YORK		
* †	Albany 12203	8 Colvin Ave.
* †	Binghamton 13902	19 Chenango St.
* †	Buffalo 14202	625 Delaware Ave.
* †	New York 10022	570 Lexington Ave.
* †	Rochester 14604	89 East Ave.
* †	Syracuse 13206	3332 James St.
* †	Utica 13501	1001 Broad St.
* †	Waverly 14892	P.O. Box 308
NORTH CAROLINA		
* †	Charlotte 28202	129 W. Trade St.
* †	Greensboro 27405	801 Summit Ave.
* †	Raleigh 27602	16 W. Martin St.
NORTH DAKOTA		
* †	Bismarck 58301	418 Rosser Ave.
OHIO		
* †	Akron 44313	2858 W. Market St.
* †	Canton 44701	515 Third St., N.W.
* †	Cincinnati 45206	2621 Victory Pkwy.
* †	Cleveland 44104	4966 Woodland Ave.
* †	Columbus 43215	395 E. Broad St.
* †	Columbus 43212	937 Burrell Ave.
* †	Dayton 45402	11 W. Monument Ave.
* †	Dayton 45402	118 W. First St.
* †	Mansfield 44906	564 Park Ave., West
* †	Toledo 43606	3125 Douglas Rd.
* †	Youngstown 44507	272 E. Indianola Ave.

OKLAHOMA		
* †	Oklahoma City 73106	2000 Classen Blvd.
* †	Tulsa 74114	Columbia Bldg., 2651 E. 21st St.
OREGON		
* †	Eugene 97401	1170 Pearl St.
* †	Medford 97501	107 E. Main St.
* ††	Portland 97210	2929 N.W. 29th Ave.
PENNSYLVANIA		
* †	Allentown 18102	732 North 16th St.
* †	Erie 16501	1001 State St.
* †	Johnstown 15902	841 Oak St.
* ††	Philadelphia 19102	3 Penn Center Plaza
* ††	Pittsburgh 15222	The Oliver Bldg., Mellon Sq.
* †	Pittsburgh 15228	733 Washington Rd.
* †	York 17403	56 N. Harrison St.
SOUTH CAROLINA		
* †	Columbia 29201	1310 Lady St.
* †	Greenville 29602	108 W. Washington St.
TENNESSEE		
* ††	Chattanooga 37402	832 Georgia Ave.
* †	Kingsport 37622	322 Commerce St.
* †	Knoxville 37916	1301 Hannah Ave., N.W.
* †	Memphis 38104	1420 Union Ave.
* †	Murfreesboro	P.O. Box 1040
* †	Nashville 37203	1717 W. End Bldg.
* †	Oak Ridge	253 Main St., East
TEXAS		
* †	Abilene 79601	442 Cedar St.
* †	Amarillo 79101	403 Amarillo Blvd.
* †	Beaumont 77701	1385 Calder Ave.
* †	Corpus Christi 78401	205 N. Chaparral
* †	Dallas 75207	8101 Stemmons Freeway
* †	El Paso 79901	215 N. Stanton St.
* †	Fort Worth 76102	408 W. Seventh St.
* ††	Houston 77027	4219 Richmond Ave.
* †	Lubbock 79408	500 E. 50th St.
* †	Midland	122 North N. Ave.
* †	San Antonio 78204	419 S. Main Ave.
UTAH		
* †	Salt Lake City 84110	200 S. Main St.
VERMONT		
* †	Rutland	38½ Center St.
VIRGINIA		
* †	Newport News 23601	P.O. Box 1038, 311 Main St.
* †	Richmond 23230	5001 W. Broad St.
* †	Roanoke 24005	920 S. Jefferson St.
WASHINGTON		
* †	Pasco 99301	824 W. Lewis St.
* †	Seattle 98104	710 Second Ave.
* †	Spokane 99220	S. 162 Post St.
* †	Spokane 99220	E. 1805 Trent St.
WEST VIRGINIA		
* †	Charleston 25328	306 MacCorkle Ave., S.E.
* †	Fairmont 26555	310 Jacobs Bldg.
* †	Wheeling	40 Fourteenth St.
WISCONSIN		
* †	Appleton 54910	510 W. College Ave.
* †	Madison 53703	340 W. Washington Ave.
* †	Milwaukee 53233	940 W. St. Paul Ave.
CANADA: Canadian General Electric Company, Ltd., Toronto		
HAWAII: American Factors, Ltd., P.O. Box 3230, Honolulu 96801		

GENERAL ELECTRIC SERVICE SHOPS

WHEN YOU NEED SERVICE . . . These G-E service shops will repair, recondition, and rebuild your electric apparatus. The facilities are available day and night, seven days a week, for work in the shops or on your premises. Latest factory methods and genuine G-E renewal parts are used to maintain peak

performance of your equipment. For full information about these services, contact your nearest service shop or sales office.

ALABAMA		
†	Birmingham 35211	P.O. Box 3687
		7-18th St., S.W.
ARIZONA		
†	(Phoenix) Glendale 85301	4911 West Colter St.
CALIFORNIA		
†	Los Angeles 90001	6900 Stanford Ave.
†	(Los Angeles) Ontario	International Airport
†	Oakland 94608	3400 Wood St.
†	Sacramento 95814	99 North 17th St.
†	San Francisco 94108	1098 Harrison St.
COLORADO		
†	Denver 80205	3353 Larimer St.
CONNECTICUT		
†	(Southington) Plantsville 06479	370 Atwater St.
FLORIDA		
†	Jacksonville 32203	P.O. Box 2932, 2020 W. Beaver St.
†	(Miami) Hialeah 33010	1062 E. 28th St.
†	Tampa 33601	P.O. Box 1245
GEORGIA		
†	(Atlanta) Chamblee 30005	5035 Peachtree Industrial Blvd.
ILLINOIS		
†	Chicago 60632	4360 W. 47th St.
INDIANA		
†	Ft. Wayne 46803	1731 Edsall Ave.
†	Indianapolis 46222	1740 W. Vermont St.
IOWA		
†	(Davenport) Bettendorf 52722	1025 State St.

KANSAS		
†	(Strother) Arkansas City	G.E. Co., P.O. Box 797
KENTUCKY		
†	Louisville 40209	3900 Crittenden Drive
LOUISIANA		
†	New Orleans 70117	1115 De Armas St.
MARYLAND		
†	Baltimore 21230	920 E. Fort Ave.
MASSACHUSETTS		
†	(Boston) Medford 02155	3960 Mystic Valley Parkway
MICHIGAN		
†	Detroit 48202	5950 Third St.
MINNESOTA		
†	Minneapolis 55430	2025-49th Ave., N.
MISSOURI		
†	Kansas City 64120	3525 Gardner Ave.
†	St. Louis 63110	1115 East Road
NEW YORK		
†	Albany 12205	1097 Central Ave.
†	Buffalo 14211	318 Urban St.
†	(New York) Linden, N. J.	1611 W. Elizabeth Ave.
†	(New York) North Bergen, N. J.	07047
†	Schenectady (Instrumentation Service) 12305	6001 Tonnelle Ave.
†		1 River Road
NORTH CAROLINA		
†	Charlotte 28208	2328 Thrift Road
OHIO		
†	Cincinnati 45202	444 W. Third St.
†	Cincinnati 45232	260 W. Mitchell Ave.
†	Cleveland 44125	4477 East 49th St.

†	Columbus 43223	P.O. Box 6198, 2128 Eakin Rd.
†	Toledo 43605	405 Dearborn Ave.
†	Youngstown 44507	272 E. Indianola Ave.
OREGON		
†	Portland 97210	2727 N.W. 29th Ave.
PENNSYLVANIA		
†	Allentown 18103	668 E. Highland St.
†	Johnstown 15902	841 Oak St.
†	Philadelphia 19124	1040 E. Erie Ave.
†	(Pittsburgh) Homestead 15120	4930 Buttermilk Hollow Rd., RD #1,
†		West Mifflin, Pa. 15122
†	York 17403	54 N. Harrison St.
TEXAS		
†	Corpus Christi 78401	115 Waco St.
†	Dallas 75235	3202 Manor Way
†	Houston 77020	5534 Harvey Wilson Drive
†	Midland 79704	704 S. Johnston St.
UTAH		
†	Salt Lake City 84104	301 S. 7th West St.
VIRGINIA		
†	Richmond 23224	1403 Ingram Ave.
†	Roanoke 24007	P.O. Box 1327, 115 Albermarle Ave., S.E.
WASHINGTON		
†	Seattle 98134	3422 First Ave., S.
†	Seattle 98108	220 Dawson St.
†	Spokane 99206	E. 4323 Mission St.
WEST VIRGINIA		
†	Charleston 25328	306 MacCorkle Ave.
WISCONSIN		
†	Appleton 54910	Midway Industrial Area
†		P.O. Box 83 County Trunk P.
†	Milwaukee 53233	940 W. St. Paul Ave.

GENERAL ELECTRIC COMPANY, PHILADELPHIA, PA.