

Modernize Your Jackson Tube Tester

COMPLETE MODERNIZING INFORMATION ON ALL MODELS OF JACKSON TESTERS MANUFACTURED IN RECENT YEARS.

Bulletin #12—February 1st, 1940

[Supercedes All Previous Modernizing Bulletins]

This bulletin explains how simply and easily you can get the most value out of your Jackson Tester—keeping it up-to-date as a useful instrument for testing the new tubes as well as the older types.

Even though numerous new types of tubes have been announced in recent months, any Jackson Tester of recent manufacture can be equipped to test these new tubes—in some cases at a cost of as little as only 50 cents.

Please read carefully. Information is given on each model of tester. It is only necessary to make certain of the model number of your tester—then consult the information in this bulletin on that particular model of tester. Any of the following ten models of Jackson Testers can be modernized—brought completely up-to-date for all of latest tube types, including loktal, single ended, high voltage types, miniature series, etc.

627	630	634	634-D	637
627-C	633	634-C	635	680

Many of the newer type tubes can be tested in your present Jackson Tester without making any changes to the instrument. In other cases it is only necessary to obtain a single adapter or to install a "spare" socket.

Listed below is a brief summary of the new tube types mentioned in this bulletin.

Single Ended Types—Tubes with control grid terminal brought out to base pin instead of top cap.

Loktal Types

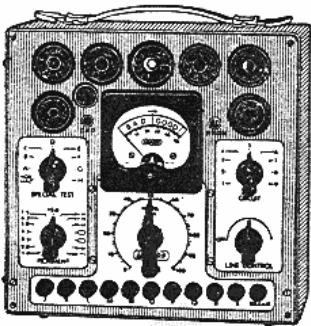
G Series—Octal Base Glass Types

GT Types—Octal Base Glass Types similar to G Series except smaller Glass Envelope

High Voltage Filament Types—Tubes requiring filament or heater voltage above 30 volts (up to 117 volts).

Miniature Types — (New small octal base 5/8" diameter)

If any correspondence is necessary, always refer to the model number and serial number of your tester. Also state if your tester has been modernized at any previous time.



MODEL 634

**Costs
Only
50
Cents
To Bring
These Models
UP-TO-DATE!**

MODEL 634

This tester is fully modern and does not require factory modernization. Owners of Model 634 Testers purchased in 1939 will only need to install a new "miniature" socket in the present "spare" socket position to provide for the new RCA Miniature Series of tubes. No other change is necessary.

New Miniature Socket (and wiring diagram) for Model 634 50c (stamps or coin)

Latest tube chart (February 1940 issue) will be mailed free of charge upon request.

MODEL 634-C

Same as Model 634 (See above).

MODEL 634-D

Same as Model 634 (See above).

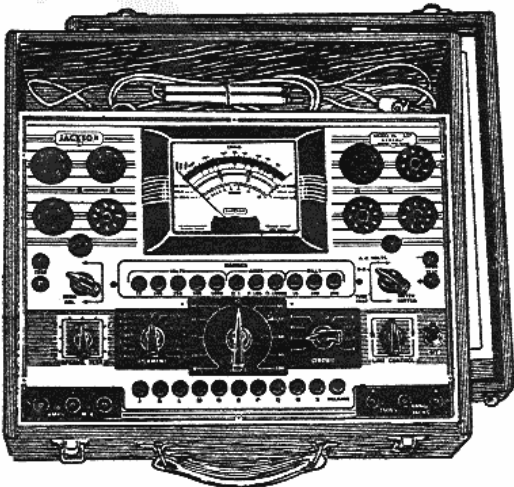
MODEL 637

This tester is fully modern and does not require factory modernization. Owners of Model 637 Testers purchased in 1939 will only need to install a new "miniature" socket in the present "spare" socket position to provide for the new RCA Miniature Series of tubes. No other change is necessary.

New Miniature Socket (and wiring diagram) for Model 637 50c (stamps or coin)

Latest tube chart (February 1940 issue) will be mailed free of charge upon request.

Models 634 and 637 as now manufactured are completely equipped with the new Miniature Series socket and with latest charts. These testers are 1940 models and are thoroughly up-to-date in every respect when shipped from the factory. Each of these models is illustrated and described in the new Jackson catalog of 1940 instruments which is available upon request.

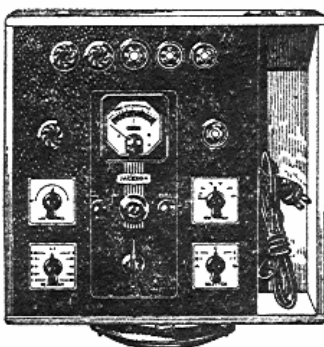


MODEL 637

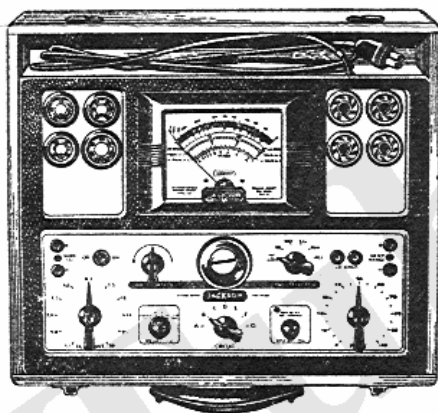
THESE MODELS CAN BE FACTORY MODERNIZED AT REASONABLE COST



MODEL 633



MODEL 627



MODEL 630



MODEL 635

MODEL 633

Factory modernization service is available for Model 633. When modernized, the tester is capable of testing loktal tubes, single ended tubes, and high voltage filament types. The new "miniature" types also can be tested, but require the use of an adapter. The modernization service includes all of the following:

- 1—Install supplementary high voltage filament transformer.
- 2—Install supplementary high voltage filament toggle switch (with escutcheon marker "HI-LO").
- 3—Install loktal socket and connect to proper test circuits.
- 4—Rewire "SPECIAL TEST" switch to provide for testing latest tubes with "tapped heater" terminals.
- 5—Make any minor repairs needed (such as replacement of small resistors, control knobs, CC cap connector, etc.) WITHOUT EXTRA CHARGE.
- 6—All circuits carefully tested and recalibration made wherever necessary.
- 7—Complete new chart listing test settings for all new tubes. This chart is just as complete as the latest charts furnished with new 1940 Jackson Testers.

TOTAL COST (Not including transportation) . . \$5.00

[NOTE—Due to lack of socket space, testing of new RCA miniature series must be accomplished by means of a single adapter. This adapter available at additional cost of \$1.00.]

MODELS 627, 630 AND 635

If you own one of these models, even though purchased as much as two years ago, you need not worry about testing the latest tube types. These testers can be brought completely up-to-date, modernized in every respect for all the latest tube types, without the use of adapters. Expert factory service—guaranteed results. Notice the many valuable features included in this modernizing service

- 1—Install supplementary high voltage filament transformer.
- 2—Install supplementary high voltage filament toggle switch (with escutcheon marker "HI-LO").
- 3—Install loktal socket and connect to proper test circuits.
- 4—Install special "Octal X" socket to provide for testing octal tubes with unusual base pin filament terminals.
- 5—Install new socket for "miniature series" tubes.
- 6—Make any minor repairs needed (such as replacement of small resistors, control knobs, CC cap connector, etc.) WITHOUT EXTRA CHARGE.
- 7—All circuits carefully tested and recalibration made wherever necessary.
- 8—Complete new chart listing test settings for all new tubes. This chart is just as complete as the latest charts furnished with new 1940 Jackson Testers.

TOTAL COST (Not including transportation) . . \$6.50

NOTE—Repairs, if necessary, will be made without extra charge if of a minor nature. However, if major repairs are required, such as repair or replacement of meter, transformer, switches, etc., a charge must be made for such work. If requested to do so, our Service Department will furnish an estimate of such additional charges before proceeding with the work.

Shipping Instructions—CAUTION! Do not ship any of the following models for modernization: 427-A, 435-A, 535, 580.

Pack your tester carefully. Tie a tag to the panel of the instrument giving your name, address, and mark "For modernization as per Bulletin 12". If you wish to authorize additional repair at the time of shipping your tester, please do so on this tag

Ship via Railway Express, prepaid, to:

THE JACKSON ELECTRICAL INSTRUMENT CO.
129 Wayne Avenue, Dayton, Ohio

Time required—approximately 4 days at our Service Department if no major repairs are required.

MODEL 680 TUBE TESTER-ANALYZER

MODERNIZING INFORMATION

Modernizing Service for Model 680 brings the instrument completely up-to-date for—

Testing all of the new tubes announced up-to-date.

Analyzing all of the new tube circuits.

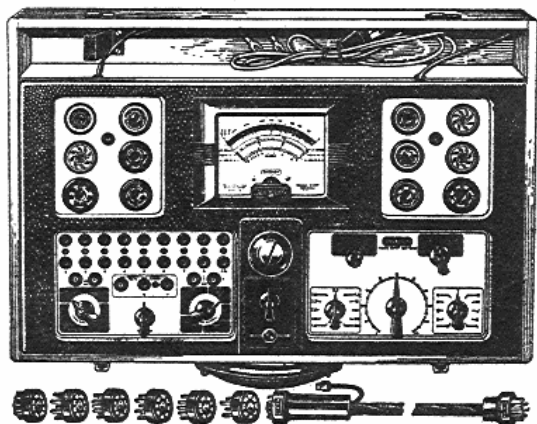
(Except Miniature Series)

This service includes removal of the present socket assembly panel and substituting therefore two complete new socket panel assemblies (one for the tube tester section and one for the analyzer section.) The new tube tester socket panel includes special octal X socket, new loktal socket, new socket for "miniature series." The analyzer section socket panel is replaced with a new panel containing all of the necessary new sockets except for the "miniature series." Due to the small diameter of the "miniature" tube, the analyzer cable and plug cannot easily be used for analyzing such circuits.

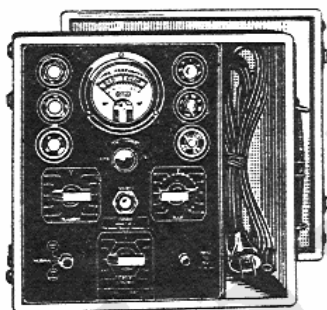
Modernization of Model 680 includes the following:

- 1—Install supplementary high voltage filament transformer.
- 2—Install supplementary high voltage filament toggle switch (with escutcheon marker "HI-LO").
- 3—Install new (9 socket) socket panel in Tube Tester.
- 4—Install new (9 socket) socket panel in Analyzer.
- 5—Provide analyzer cable "Loktal" attachment.
- 6—Make any minor repairs needed (such as replacement of small resistors, control knobs, CG cap connector, etc.) WITHOUT EXTRA CHARGE.
- 7—All circuits carefully tested and recalibration made wherever necessary.
- 8—Complete new chart listing test settings for all new tubes. This chart is just as complete as the latest charts furnished with new 1940 Jackson Testers.

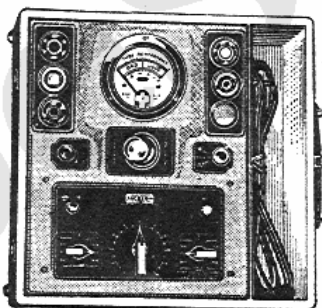
TOTAL COST (Not including transportation) . . . \$12.50



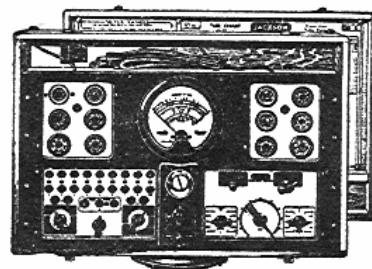
MODEL 680



MODEL 427-A



MODEL 435-A



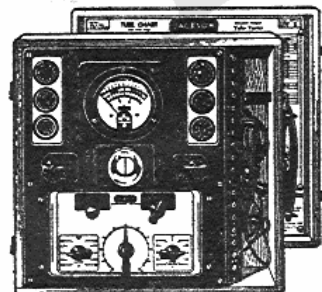
MODEL 580

MODELS 427-A, 435-A, 535, 580

These models are illustrated on this page. Factory modernization service not available for these models. Many of these testers are as much as five years old. However, quite a few of the new tubes can be tested in these instruments by the use of a loktal adapter and by obtaining a new chart from the factory.

No provision for the high voltage filament types can be made. Miniature types cannot be tested.

It is recommended that owners of these testers seriously consider the purchase of one of the new 1940 models of Jackson Tube Testers. The new 1940 models contain the same basic Jackson dynamic test circuit which has been used in all Jackson testers for over five years. However, the new 1940 models are completely up-to-date for all modern types of tubes. Also the test circuit has been improved to provide even greater reliability and accuracy. **SEE THE NEWEST JACKSON 1940 CATALOG.**



MODEL 535

Loktal adapter for any Jackson Tester Model 427-A, 435-A, 535, 580—\$1.00 net.

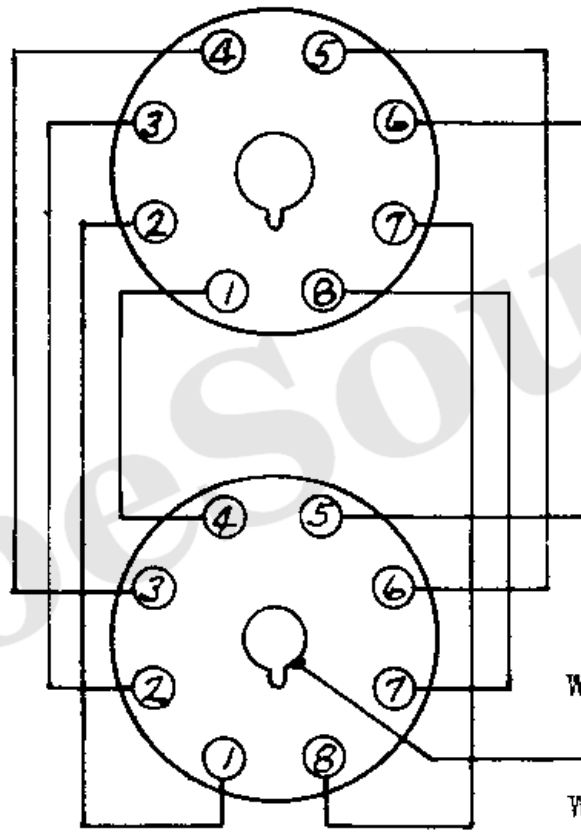
Latest tube chart (February 1940) 25c net.

(Order from the factory.)

WIRING DIAGRAM

(For installation of "loctal" socket in Models 627,
630, 633, 635, and 680 testers.)

OCTAL SOCKET



"LOCTAL" SOCKET

Wire to #1 terminal on CIRCUIT
control for Mod. 633.

Wire to (A) terminal on
CIRCUIT control for Mods.
627, 630, 635, and 680.

To install the loctal socket, remove the octal socket marked "spare". In its place install the loctal socket and wire as shown above. The above drawing is the rear view of the sockets.

The center contact terminal of the loctal socket should be wired to the CIRCUIT control as indicated above. The purpose for this, is to make it possible to indicate a short or leakage condition between the tube base pins and the metal shell of the tube.

THE JACKSON ELECTRICAL INSTRUMENT COMPANY, DAYTON, O.