

## Mutual Conductance TUBE TESTER

### Wired and Calibrated

#### FEATURES

- Dual Reading English - Micromhos
- Facilities for Noise Test
- Provide Vital Life Test
- Test 5 & 7 Nuvistors, Compactrons  
10 Pin Headers & Novars
- "New" 14 Point Switching

The STARK MODEL 9-66A with its newly developed switching offers the ultimate to avoid obsolescence. It now incorporates all the latest tube basing and is designed in an attempt to allow for ever-changing advancement in tube improvement. It is now used by most of the major industries as well as Government agencies for field, production and laboratory applications.

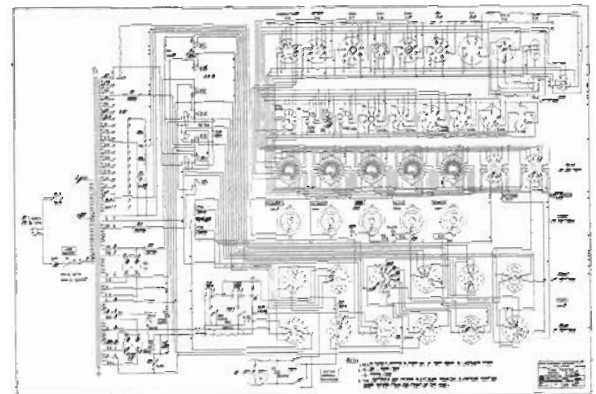
Where proper testing is required, dynamic mutual conductance readings are essential. The principle of the Stark Model 9-66A is based on the Stark-Hickok patented circuit which is proportionally the same as that used by the tube manufacturer. Operating Voltages are supplied to all the elements. . Plate. . Screen. . Grid including a signal voltage that enables the tube to be tested under operating conditions.

The 9-66A includes all the common American sockets. The roll chart is located at the bottom of the panel and includes over 1500 popular American tubes, a booklet listing over 1500 tubes is also supplied with up-to-date setting for European, Western Electric and additional American types. Tube data service is supplied free of charge for one year and at a nominal fee thereafter.

The unit is supplied in an attractive reinforced, grey leatherette case strong carrying handle with detachable lid. Stark, thru the medium of the 9-66 has become the leader for tube checkers in Canada. The 9-66A with Starks guarantee of supplying data ( within the design limits ) on new and special tubes offers to industry. . . the educator the technician a tube checker that will meet the needs of to-morrow.



Model 9-66A



### Specifications

#### MUTUAL CONDUCTANCE

Reads directly on a 3 range meter:  
0-3000, 6000, 15,000 micromhos.

#### DUAL METER READINGS

Reads quality in terms of "Good-Bad".

#### BIAS VOLTAGE

Precision Potentiometer continuously  
variable from 0 to minus 40 Volts DC.

#### VOLTAGE ADJUSTMENT

Facility for line voltage adjustment.  
B + adjusted accurately at factory.

MADE IN CANADA

#### FILAMENT VOLTAGE

.6 - 117 Volts AC in 18 steps.

#### A.C. SIGNAL VOLTAGE

5 Volts RMS

#### LIFE TEST

Test to indicate life expectancy  
of tube.

#### LEAKAGE & SHORTS

Indicates directly on Neon Bulb.

#### TUBE & FUSE COMPLEMENT

Type 83 rectifier for plate voltage.  
Type 5Y3GT rectifier for Grid Bias,  
and screen voltage. AC line fuse  
and Neon lamp directly accessible.

#### METER

Stark 5" with large easy to-read  
Multi-coloured scale.

#### POWER REQUIREMENTS

110 Volts AC 60 cycle 75VA Max.

#### SIZE & WEIGHT

18" x 17" x 8" Wt 21 lbs.

**STARK**

## Mutual Conductance TUBE TESTER

### Wired & Calibrated

#### Features

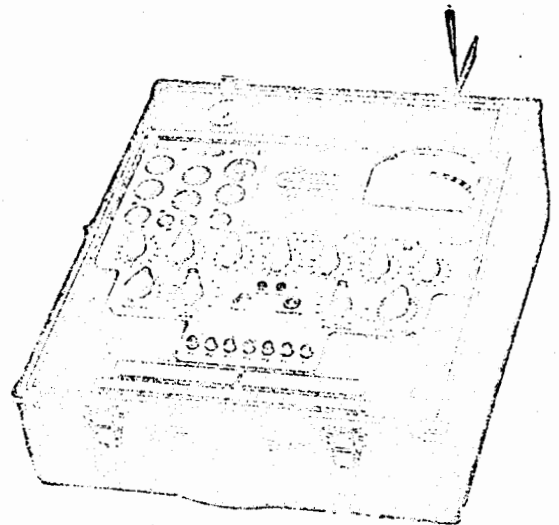
- Dual Reading English -Micromhos
- Test European & American Tubes
- Provides Vital Life Test
- Test 5 & 7 pin Nuvistors, Compactrons  
10 pin Headers & Novars
- "New" 14 Point Switching

The STARK MODEL 9-66AU (Universal) was designed to meet the growing need of a facility to test European tubes. It incorporates all the latest American sockets as well as the following European basing ... B9G (English 9 pin octal) ... B3G (British 3 pin inline) ... Rimlocks (8 pin) ... B4 (British 4 pin) ... (B5 British 5 pin) ... B7 (British 7 pin) ... B8G (British 8 pin octal) ... MO (Mazda Octal)

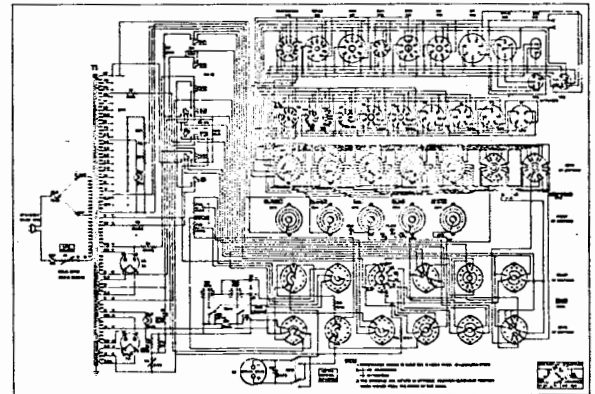
Where proper testing is required, dynamic mutual conductance readings are essential. The principle of the Stark Model 9-66AU is based on the Stark-Hickok patented circuit which is proportionally the same as that used by the tube manufacturer. Operating voltages are applied to all the elements... Plate... Screen... Grid including a signal voltage that enables the tube to be tested under operating conditions.

The 9-66AU includes all the common American sockets. The roll chart is located at the bottom of the panel and includes over 1500 popular American tubes. A booklet listing over 1500 tubes is also supplied with up-to-date setting for European, Western Electric and additional American type. Tube data service is supplied free of charge for one year and at a nominal fee thereafter.

The unit is supplied in an attractive reinforced, grey leatherette case, with strong carrying handle and detachable lid. The 9-66AU had immediate acceptance throughout industry and government agencies as well as technicians and educational institutes. Stark, with the test data service, and their guarantee to supply data (within the design limits) on new and special tube offers to industry... the educator... the technician a tube tester with the latest data as required.



Stark Model 9-66 AU



### Specifications

#### MUTUAL CONDUCTANCE

Reads directly on a 3 range meter;  
0-3000, 6000, 15,000 micromhos.

#### DUAL METER READINGS

Reads quality in terms of "Good-Bad"

#### BIAS VOLTAGE

Precision Potentiometer continuously  
variable from 0 to minus 40 Volts DC.

#### VOLTAGE ADJUSTMENT

Facility for line voltage adjustment.  
B + adjusted accurately at factory.

MADE IN CANADA

#### FILAMENT VOLTAGE

6 - 117 Volts AC in 18 steps.

#### A.C. SIGNAL VOLTAGE

5 Volts RMS

#### LIFE TEST

Test to indicate life expectancy  
of tube.

#### LEAKAGE & SHORTS

Indicates directly on Neon Bulb.

#### TUBE & FUSE COMPLEMENT

Type 83 rectifier for plate voltage.  
Type 5Y3GT rectifier for Grid Bias,  
and screen voltage. AC line fuse  
and Neon lamp directly accessible.

#### METER

Stark 5" with large easy to-read  
Multi-coloured scale.

#### POWER REQUIREMENTS

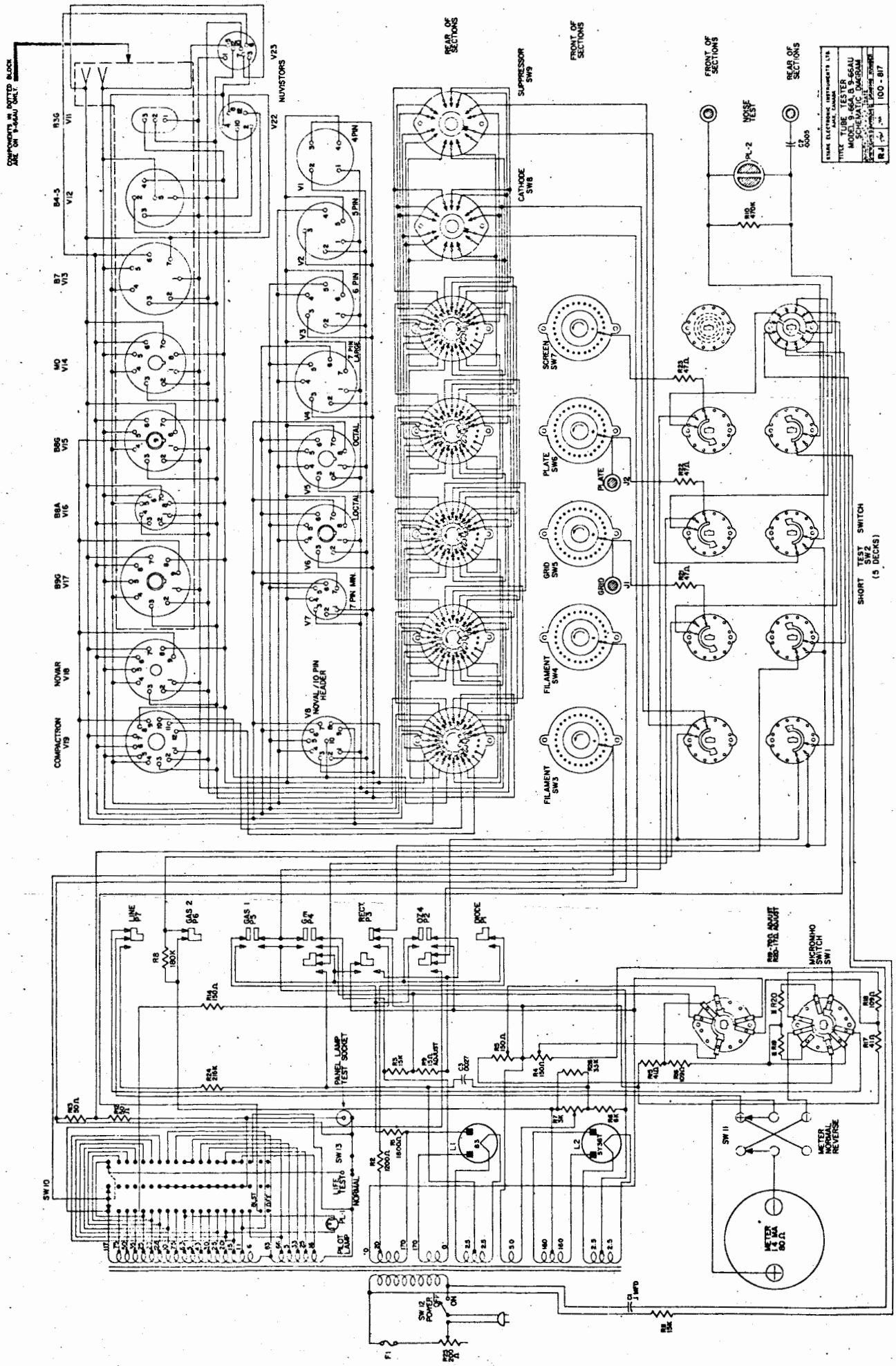
110 Volts AC 60 cycle 75VA Max.

#### SIZE & WEIGHT

18" x 17" x 8" Wt. 21 lbs.

**STARK**

- NOTES:
1. SHORT TEST SWITCH (SW 2) IS MICRONHO SWITCH (SW 4)
  2. SELECTOR SWITCHES SHOWN IN OFF (12 O'CLOCK) POSITION ON ALL SWITCHES AS VIEWED FROM THE FRONT.



TUBE TESTER  
MODEL 942C 5-5504M  
100-817

# UNIVERSAL TUBE TESTER

Wired & Kit

## FEATURES

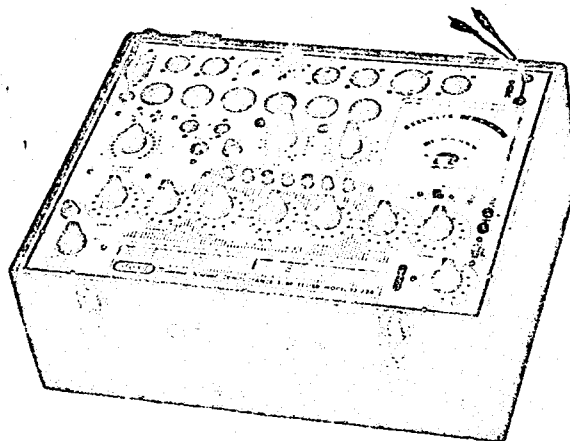
- Dynamic Mutual Conductance
- Tests European & American tubes
- Tests transistors & diodes
- Tests 5 & 7 pin Nuvistors, Compactrons, 10 pin Headers and Novars

The Starkit Model 12-22A is the first Universal Tube Tester produced on the American Continent embracing the highest quality circuitry performance of the patented Hickok Dynamic Mutual Conductance Circuit. In like manner it is the first Dynamic Mutual Conductance Circuit to be made available in kit form, as well as wired form. Its unique design embraces the tube tests for European as well as for American tubes. This is a great advantage to domestic users as well, due to the constant growth of European tube applications.

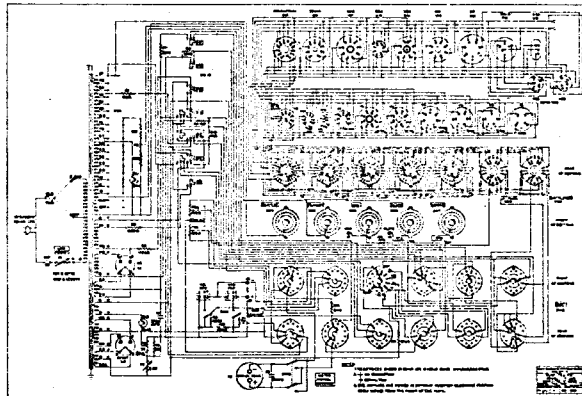
Where proper testing of tubes is required, dynamic mutual conductance readings are essential. The principle of the Starkit 12-22A is proportionally the same as that used by tube manufacturers laboratories in designing and testing their own tubes. Operating voltages, including DC Grid Bias, are applied to every element, and an AC signal is applied to the control grid so that the tube is operating during the test.

The Starkit Model 12-22A is available in either kit or wired form. The kit is supplied with step by step assembly instructions and manual with complete pictorial, schematic and wiring harnesses that take the puzzle out of assembly. A unique method of calibration allows the operator to calibrate his checker with factory precision.

Stark provides, for one year free of charge, data service comprising of one new chart and three supplements (published quarterly). A nominal charge for each year thereafter.



Starkit Model 12-22A



## Specifications

### MUTUAL CONDUCTANCE

Read directly on a 3 range meter:  
0-3000, 6000, 15, 000 micromhos

### LEAKAGE & SHORTS

Indicated directly on meter in ohms-  
Sensitivity to 10 megohms.

### AC SIGNAL VOLTAGE

5 Volts RMS

### GRID CURRENT (GAS) TEST

Measured in terms of micro-amps.

### BIAS VOLTAGE

Continuously variable from  
0 to minus 40 volts D. C

### FILAMENT VOLTAGE

6 to 117 Volts AC in 18 steps.

### DUAL METER READINGS

Reads quality in terms of "Good-Bad"

### METER

Stark 4-1/2" model with large easy-  
to-read multi-coloured scales.

### TUBE & FUSE COMPLEMENT

Type 83 rectifier for plate voltages.  
Type 5Y3GT rectifier for grid bias,  
and screen voltage. AC line fuse and  
grid bias fuse directly accessible.

### POWER REQUIREMENTS

Available for operation on either 110  
or 220 volts, 50-60 cycles A. C Power  
consumption 75 Volt-Amp.

### SIZE & WEIGHT

17-1/4" long x 13-1/2" wide x 8" high  
Weight 17 lb net.

MADE IN CANADA



**STARK**

# Starkit Model 12-22A

