SERVICING by SIGNAL SUBSTITUTION

Twelfth Edition

IMPORTANT NOTE

This copy of "Servicing by Signa Substitution" contains special hand callibration data for TH SIMMEN ONLY and must be kept with it at all times.

Sories E-200-C Serial # 40567

Precision Apparatus Company, Inc. Elmburst, L. L. New York middial mAxRF $A,B,\neq C$ 1.5vpp 0 1vpp E 5vpp F,F_2,F_4 3vpp

Instructions and Guide for Operation of the

Precision Service-Laboratory Signal Generator

Series E-200-C

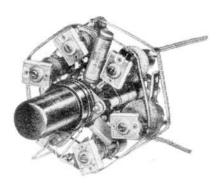
FEATURING THE PRECISION METHOD OF

DYNAMIC RECEIVER ANALYSIS

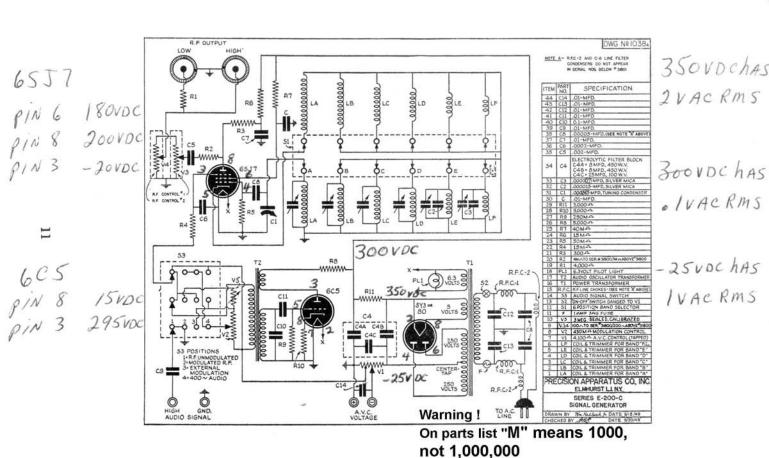
"SERVICING BY SIGNAL SUBSTITUTION"



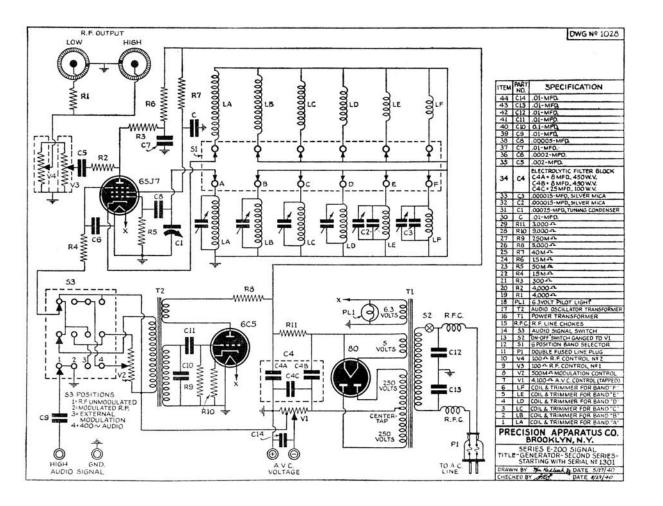
SERIES E-200-C SIGNAL GENERATOR

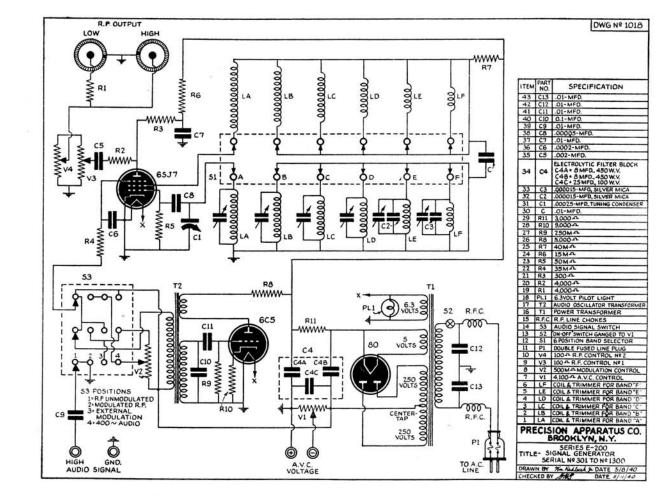


PRECISION "UNIT-OSCILLATOR" CONSTRUCTION









IMPORTANT NOTE

RELATIVE TO SERIES E-200-C AND E-200 MODULATION CONTROLS

Page (27) of this book describes the use and setting of Series E-200-C "Modulation Control".

In models PREVIOUS to E-200-C this control is NOT direct reading in terms of percentage of modulation, but rather the settings MUST be made in accordance with the calibration chart which appears on the reverse side of this page. This chart lists internal modulation percentage versus "Modulation Control" settings and must be rigidly followed for best results.

If this control be set above 6.5, or above 100% modulation, the modulation tone may cut off as if the control were open. This is a direct result of overmodulation and is NOT a defect of the instrument.

The audio sections of Series E-200 and E-200-C are capable of delivering considerably greater audio signal voltage than is required for purposes of internal modulation of the R.F. signal. Accordingly, oversetting the "Modulation Control" quite understandably injects too great an audio signal into the R.F. amplifier-buffer section. This high audio output, however, is extremely desirable when employed for direct audio tests as described on page (28), page (82) and following.

Of course, when the audio test signal is to be employed for EXTERNAL usage, the "Audio Signal" switch is no longer set to "Mod. R.F.", but instead to "400 CYCLE AUDIO" position. Then the "Modulation Control" may be set to whatever level is required for the apparatus under test, bearing in mind the information contained in the note on page (28).

On Series E-200-C, percentage modulation settings are direct reading on the OUTSIDE set of numerals.

The INNER ring of numbers, 0-10, represent a purely

arbitrary set of figures for reference use when employing the same control for audio signal test purposes or for EXTERNAL modulation percentage control. In such cases the "AUDIO SIGNAL" switch would NOT be in the "Modulated R.F." position.

K4XL's PAMA

This manual is provided FREE OF CHARGE from the "BoatAnchor Manual Archive" as a service to the Boatanchor community.

It was uploaded by someone who wanted to help you repair and maintain your equipment.

If you paid anyone other than BAMA for this manual, you paid someone who is making a profit from the free labor of others without asking their permission.

You may pass on copies of this manual to anyone who needs it. But do it without charge.

Thousands of files are available without charge from BAMA. Visit us at http://bama.sbc.edu