

**PREEMPT-PRECEDENCE  
WINK SIGNAL TEST SET  
EQUIPMENT DESIGN REQUIREMENTS  
STATION SYSTEMS**

**1. GENERAL**

**Scope**

**1.01** This specification, together with the supplementary information listed herein, covers the equipment design requirements for the engineering and manufacturing of the preempt-precedence wink signal test set.

**Description**

**1.02** The J53042A wink signal test set is designed to generate wink signals for use with AUTOVON circuits which must recognize E lead wink signals generated by a switching center. The wink signal is a nominal 345-msec open in the off-hook ground of the E lead. In the AUTOVON system, the length of the wink signal may vary over certain limits. If the wink signal is beyond these limits, the circuit recognizing the signal should reject it. This circuit generates two signals which are on the minimum side in length and two which are on the maximum side. At each extreme, one wink length is such that it should just be recognized and the other such that it should just be rejected. The test set may be used, then, to check the operation of an AUTOVON circuit for proper operation; or, if the circuit is adjustable, it may be adjusted to work properly.

**1.03** The test set is connected to the circuit under test by (a) connecting the test lead to the E lead of the circuit, and (b) connecting battery and ground to the test set. Care must be taken to ensure that the normal E lead from the line facility does not interfere with the test. The test set provides ground on its test lead, simulating either an incoming call condition or a busy condition of the E lead, depending on whether the AUTOVON circuit is on hook or off hook. This ground can be interrupted (winked) by depressing the nonlocking switch. The length of the wink may be selected by the position of the selector switch. The depression of the nonlocking switch causes the circuit to change state and op-

erate relay A, which opens the ground on the test lead. At the end of the selected time, the relay releases and again grounds the test lead.

**1.04** The overall size of the set is 5 inches in length, 3 inches in width, and 3-1/2 inches in height. This test set is equipped with an ED-69515-( ) printed wiring board assembly. A rotary switch is employed to select any one of four different lengths of wink signals, and a manual pushbutton switch is used for the control of the start of each wink signal. The test set is also equipped with three jacks per LJ53042A, Issue 1, one colored red for the 24-volt battery connection, one colored black for the ground connection, and one colored yellow for the wink signal test lead. The housing is deep drawn aluminum, light in weight, and durable. This test set does not require any other additional equipment.

**2. SUPPLEMENTARY INFORMATION**

812-000-000 — Station Systems Index  
AA128.006 — Checking List — General  
Equipment Requirements  
J53041A-( ) — Station System, Switching  
System No. 309 — 4-Wire CO  
Line Unit with E and M Lead  
Signaling.

**3. DRAWINGS**

The WECO J drawings listed should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

**Circuits**

SD-69550-01 — Preempt-Precedence Wink Signal  
Test Set Circuit

**Equipment**

ED-69515-30 — Printed Wiring Board Assembly  
for Preempt-Precedence Wink  
Signal Test Set  
J53042A-( ) — Preempt-Precedence Wink  
Signal Test Set

4. EQUIPMENT

*ED-69515-30 (AT&T Co Std) — Printed Wiring Board Assembly For Preempt-Precedence Wink Signal Test Set*

Equipment — ED-69515-30

*Group 1* — Assembly and equipment for a printed wiring board network having a wink signal with a nominal 345-msec open in the off-hook ground of E lead per SD-69550-01, Fig. 1.

*J53042A (AT&T Co Std) — Preempt-Precedence Wink Signal Test Set*

Equipment — J53042A-( )

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*List 1* — Assembly, wiring, and equipment for one preempt-precedence wink signal test set per SD-69550-01, Fig. 1.

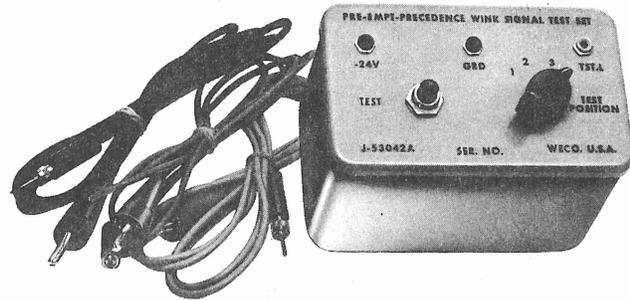


Fig. 1 — Preempt-Precedence Wink Signal Test Set