Installation Engineering Handbook 59
Western Electric Company, Incorporated
Hawthorne Works

Section 903C
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AUXILIARY LINE CIRCUIT

SD-99385-01

CONTENTS

1. GENERAL INFORMATION

1.1 Description of Circuit

1.11 This circuit provides a means for delaying an incoming ringing signal to a telephone secretarial line circuit when it is assigned to MJ Radio Telephone Line circuit. The delay is to permit time for the mobile radio switching system to function and start ringing the mobile station.

1.2 Description of Test

1.21 This section provides a method for testing the vaious features of the Auxiliary Line circuit SD-99385-01 before cross connections are made to the Telephone Secretarial Line circuit and the MJ Radio Telephone Line circuit.

2. RECORDS AND REQUIREMENTS

2.1 Records

2.11 Forms SD-4-1313 and SD-4-1315 are required for recording the results of these tests. For further information on preparing records, refer to Handbook 3, Section 6B.

2.2 Requirements

2.21 The tests in this section are based on SD and CD information.

3. TEST EQUIPMENT

3.1 Test Sets

Amt	Code	Description
1	ITE-4442A	Volt-Ohmmeter
1	ITE-4631	Test Receiver

3.2 Cords

Note	Amt	Code	Lgth	Cdrs	One End	Other End
R	1	ITE-9140 List 3	3'	1	Alligator Clip	Alligator Clip

3.3 Note

R - Requisition.

4. FUSING

4.1 Using ITE-4442A Volt-Ohmmeter, check each fuse post for absence of battery and ground.

4.2 Using fuses of correct type, as indicated by circuit drawing and panel designations, install the fuses one at a time, checking that each fuse is associated with the correct equipment and is free from crosses with other unfused posts on the fuse panel.

4.3 Using ITE-4442A Volt-Ohmmeter, check for -48V battery on unit T.S. A, punching 31.

4.4 Using ITE-4442A Volt-Ohmmeter, check for ground on unit T.S. A, punching 11.

5. OPERATION TEST

5.1 Insulate 4M and 8M of relay R1.

5.2 Using ITE-9140 cord, apply ground on unit T.S. A, punching 26. Using ITE-4631 Test Receiver, momentarily apply 60 cycle ringing current on unit T.S. A, punching 36. Observe relay R operates.

5.3 Upon completion of test, remove insulators and restore circuit to normal.

5.4 Block operated the R relay. Momentarily apply ground to unit T.S. A, punching 37. Observe relay R1 operates.

5.5 Upon completion of test, remove block and restore circuit to normal.

5.6 Momentarily apply -48V battery to unit T.S. A, punching 38 and ground to unit T.S. A, punching 28. Observe relay A operates.

5.7 After completion of test, restore circuit to normal and remove all associated cords, plugs, strapping, insulators and blocking tools if applicable.

→ Arrowed lines indicate new or changed information.

Manager, Engineering, Switching Equipment and SXS P.E.C.C.

Reason for Reissue:

To incorporate miscellaneous Handbook Sections into one Handbook Section and to make general revisions to update to current engineering standards.