Installation Engineering Handbook 59
Western Electric
Hawthorne Works

Section 358
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SHARED SECURITY ATTENDANT PREFERENCE CIRCUIT (NS-02516-01)

CONTENTS

1. GENERAL INFORMATION

1.1 Description of Circuit

1.11 This circuit provides a means for up to five Automatic Number Announcement Circuits (ANAC), in the same wire center to be served by one security circuit arrangement.

2. RECORDS AND REQUIREMENTS

2.1 Records

2.11 The results of these tests should be recorded on forms SD-97-1313 and SD-97-1315.

2.2 Requirements

2.21 The test of this section is based on NS-02516-01.

3. TEST EQUIPMENT

3.1 Test Sets

Amt	Code	Description
1	ITE-4442A	Volt-Ohmmeter

3.2 Cords

Amt	Code	Description
2	ITE-9140 L3	Single conductor 3 foot cord terminated at each end with an alligator clip.

4. FUSING TEST

4.1 Remove the fuse if it is installed.

4.2 Using the ITE-4442A, check that fuse post is free of battery and ground.

4.3 Install the fuse and check that -48V appears at T.S.(A) terminal 11 and GROUND appears at T.S.(A) terminal 41.

5. TEST OPERATIONS

5.1 Apply TABLE A in the order indicated.

TABLE A

STEP	OPERATION	OBSERVATION
1	Apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 17.	Relay M1, M1A, M and MA operate.
2	Check T.S.(A) terminal 18 for ground (Z option) or -48V (Y option).	
3	Momentarily apply ground to T.S.(A) terminal 28.	Relay E operates when ground is applied and releases when ground is removed.
4	Apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 16.	Relay M2 operates, M2A does not operate.
5	Remove ground (Z option) or -48V (Y option) from T.S.(A) terminal 17.	Relays M1 and M1A release. Relay M2A operates.
6	Momentarily apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 17.	Relay M1 does not operate.
7	Apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 15.	Relay M3 operates, M3A does not operate.

TABLE A (Cont)

STEP	OPERATION	OBSERVATION
8	Remove ground (Z option) or -48V (Y option) from T.S.(A) terminal 16.	Relays M2 and M2A release. Relay M3A operates.
9	Momentarily apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 16.	Relay M2 does not operate.
10	Apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 14.	Relay M4 operates, M4A does not operate.
11	Remove ground (Z option) or -48V (Y option) from T.S.(A) terminal 15.	Relays M3 and M3A release. Relay M4A operates.
12	Momentarily apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 15.	Relay M3 does not operate.
13	Apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 13.	Relay M5 operates, M5A does not operate.
14	Remove ground (Z option) or -48V (Y option) from T.S.(A) terminal 14.	Relays M4 and M4A release. Relay M5A operates.
15	Momentarily apply ground (Z option) or -48V (Y option) to T.S.(A) terminal 14.	Relay M4 does not operate.
16	Remove ground (Z option) or -48V (Y option) from T.S.(A) terminal 13.	Relays M5, M5A, M and MA release.
17	Block relays E, M1A to M5A operated.	Check for ground at T.S. (A) terminal 27, check for absence of ground at 23 to 26.
18	Remove block from relay M1A.	Check for ground at terminal 26, check for absence of ground at 23 to 25.
19	" " " " M2A.	Check for ground at terminal 25, check for absence of ground at 23 and 24.
20	" " " " M3A.	Check for ground at terminal 24, check for absence of ground at 23.
21	" " " " M4A.	Check for ground at terminal 23.
→ 22	Block relay E operated. Operate relays M1 to M5 one at a time in sequence.	Relays M1 to M5 should lock operated.
→ 23	Release the E relay.	All relays release.

→ Arrows indicate new or changed information

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Reason for Reissue:
Change Paragraph 2.11.
Add Steps 22 and 23 to TABLE A.