

**COIN TRUNK CIRCUIT SD-31592-02**  
**ARRANGED FOR COIN FIRST SERVICE**  
**OPERATION TESTS**  
**USING TRUNK TEST SET SD-90469-01 OR**  
**SD-90469-02 (J94710A)**  
**STEP-BY-STEP SYSTEMS**

**1. GENERAL**

**PAGE**

**1.01** This section describes a method of testing the operating features of the coin trunk SD-31592-02, arranged for coin first service, using trunk test set SD-90469-01 or SD-90469-02 (J94710A). Information in this section was formerly contained in Section 226-521-500.

**D. P1 Relay Release Test:** This test checks the ability of the P1 relay in the coin trunk to release satisfactorily under an open circuit condition. . . . . **12**

**1.02** This section is reissued to revise paragraph 1.07 to include information about sleeve identification when performing Test C if office is equipped with ANI. This reissue does not affect the Equipment Test List.

**E. RT Relay Operate Test:** This test applies a critical operate test of the RT relay. . . . . **15**

**1.03** The tests covered are:

**PAGE**

**A. Coin Collect—Loop:** This test checks the coin collect features of the coin trunk, applied under a loop condition. . . . . **5**

**F. Stuck-Coin Alarm Test:** This test checks that the stuck-coin alarm feature of the coin trunk functions satisfactorily. . . . . **16**

**B. Coin Return—Leak:** This test checks the coin return features of the coin trunk, pulsing under a leak condition. . . . . **9**

**G. Coin-Trunk-Timed-Release Circuit Test (SD-31861-01):** This test checks that the coin-trunk-timed-release circuit will release the trunk when a stuck-coin condition is applied. . . . . **17**

**C. Operator Cut-Through and Ringback:** This test checks the metallic cut-through over which the operator controls the coin and also the feature that provides the operator with a means of holding a trunk and ringing back through it. . . . . **10**

**1.04** The trunk test set is not designed to make an operate test of the P1 relay. Whenever circuit operation indicates a need, the P1 relay should be adjusted in accordance with the Circuit Requirements Table of SD-31592-02.

**1.05** The RT relay operate test uses an external resistance ground to simulate coin deposit, providing a critical operate test. Any RT relay that fails this test should be adjusted in accordance with the Circuit Requirements Table of SD-31592-02.

**NOTICE**

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## SECTION 226-521-502

**1.06** These tests should preferably be made during periods of light traffic, and the performance of Test C should be coordinated with the group responsible for operator services.

**1.07** During Test C, when testing to a TSPS office, and automatic number identification (ANI) equipment is provided in the testing office, a sleeve identification will have to be provided to prevent second trial transverter failure registrations. (See Fig. 1 for example of providing this sleeve identification.)

**1.08** When testing coin trunks equipped with coin-trunk-timed release circuit SD-31861-01, test each trunk in accordance with procedures of Test F; then test each trunk in accordance with procedures of Test G.

**1.09** During Test G, the check of the coin-trunk-timed-release circuit register, if provided, will cause the register to advance. The reporting of this register operation should be in accordance with local instructions.

**1.10** When making the coin-trunk-timed-release circuit (SD-31861-01) ineffective in an office arranged for extending alarms to another office; operate audible alarm switch or key to position where audible alarm will be heard. For offices not arranged for extending alarms, at coin-trunk-timed-release circuit (SD-31861-01), turn CO key to a position where GD lamp lights. Some offices may have circuit arrangements which do not furnish key control. In this case, it will be necessary to block coin-trunk-timed-release C relay in the nonoperated position.

**1.11** When making the coin-trunk-timed-release circuit (SD-31861-01) effective in an office arranged for extending alarms to another office, operate audible alarm switch or key to position that makes alarms extend to another office. Notify proper person in the distant office that alarms have been transferred. For offices not arranged for extending alarms, at coin-trunk-timed-release circuit (SD-31861-01), turn CO key to a position where GD lamp is extinguished.

**1.12** When testing coin trunks, which are reached through secondary line switches, the key, which is provided at the trunk relay rack for rotating the secondary master switch associated

with the trunk to be tested, should be operated momentarily to pick up disengaged plungers.

## 2. TEST PROCEDURES

### A. Apparatus

#### Tests A Through G

**2.01** Trunk test set J94710A (SD-90469-01 or SD-90469-02).

**2.02** Head telephone set, 52-type.

**2.03** Two P3E patching cords, 6 feet long, equipped with red-shelled 310 plugs (3P7A cords).

#### Test D

**2.04** If test set is equipped with a CL jack, use a 3P7A patching cord, consisting of one P3E cord, 6 feet long, equipped with two 310 plugs.

**2.05** If test set is not equipped with a CL jack, a special test cord, made up locally as shown in Fig. 2, must be used with test set. The physical arrangement of the lamp, key, and resistor can be determined locally. In offices where a battery and ground jack is not available, two KS-6780 connecting clips and two 108 cord tips should be used in place of the 310 plug with the black shell.

#### Test E

**2.06** Resistor 63T (2000 ohms).

**2.07** Testing cord, 893 cord, 3 feet long equipped with two 360A tools and two KS-6278 connecting clips (1W13A cord), used to connect 63T resistor to ground.

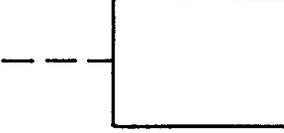
**2.08** Testing cord, W2F cord, 9 feet 6 inches long, equipped with one 347C plug and two 59 cord tips (2W7A cord), used to connect resistance ground to test set.

### B. Flowcharts

**2.09** Table A provides an explanation of the symbols that are used in the test procedure flowcharts.

TABLE A

## FLOW CHART EXPLANATIONS

SYMBOL	EXPLANATION
	Indicates the beginning of the procedure and an exit or entrance reference to pages within same procedure.
	Indicates an action which is performed on a manual or automatic basis.
	Brackets are used to reference supporting-type data.
	Used to represent a decision which determines which one of two paths to take.
	The end of procedure symbol is used to denote that the end of the emergency action condition has been completed.
	Used to indicate the direction of information flow.
	Used to indicate two processes flowing into a common sequence.

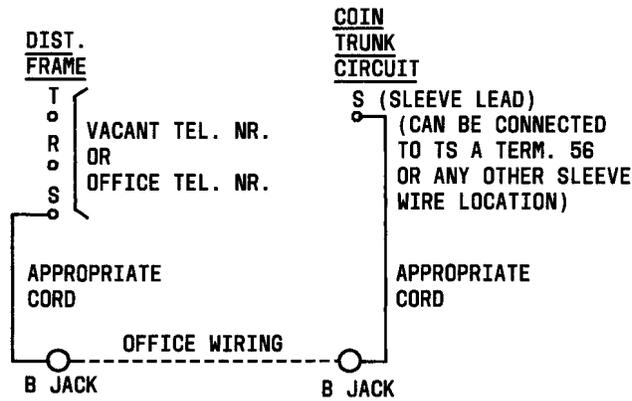


Fig. 1—Example of Connections Needed For Test C When Office is Equipped With ANI

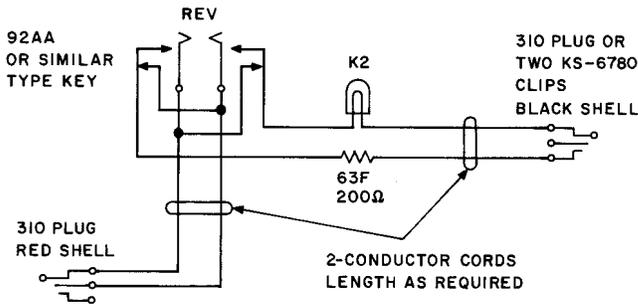


Fig. 2—Test Cord

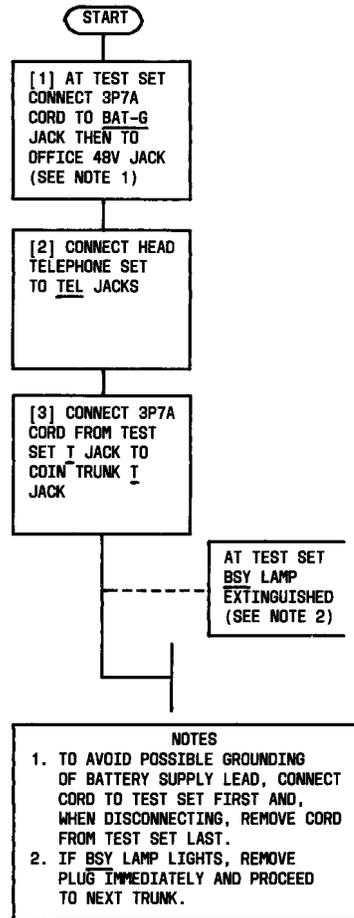


Fig. 3—Test Preparation

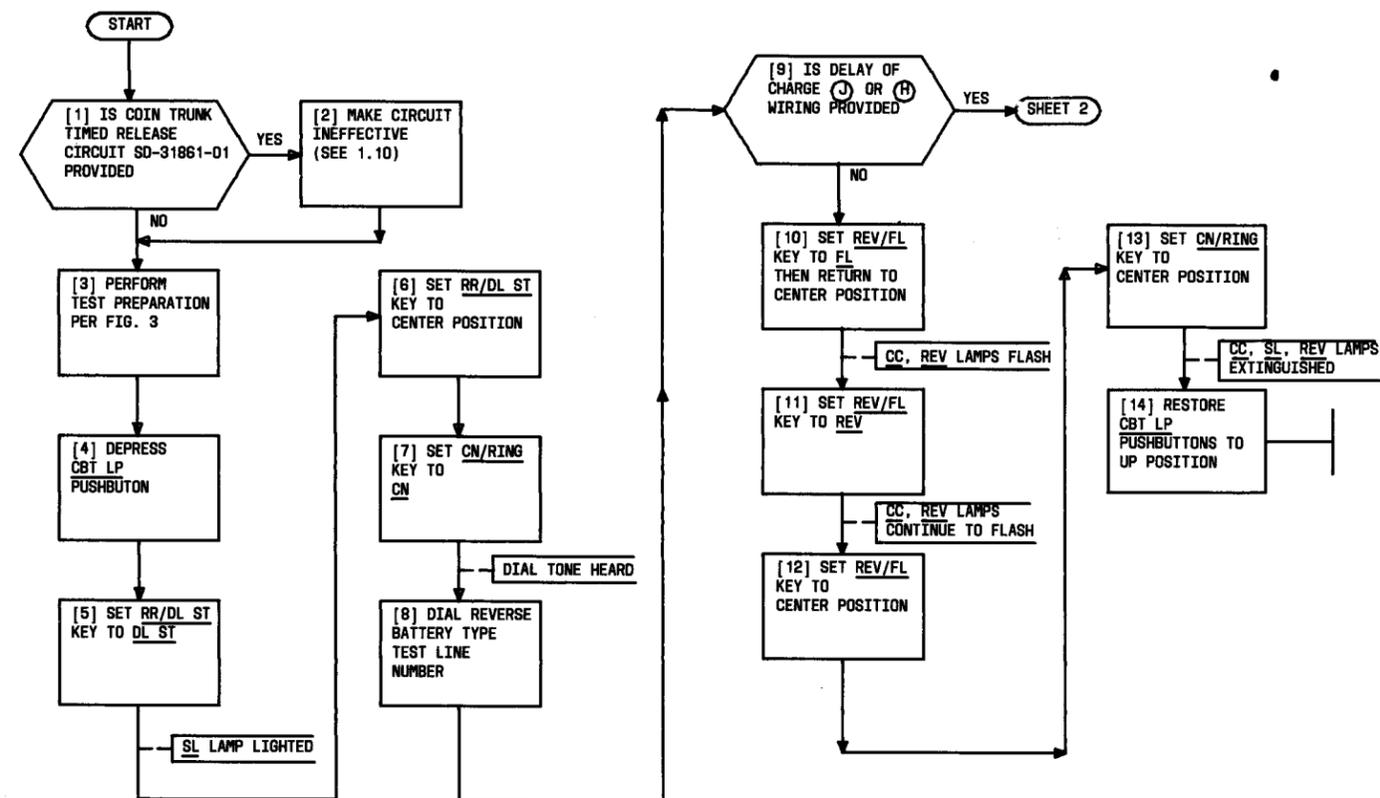


Fig. 4—Test A: Coin Collect—Loop (Sheet 1 of 2)

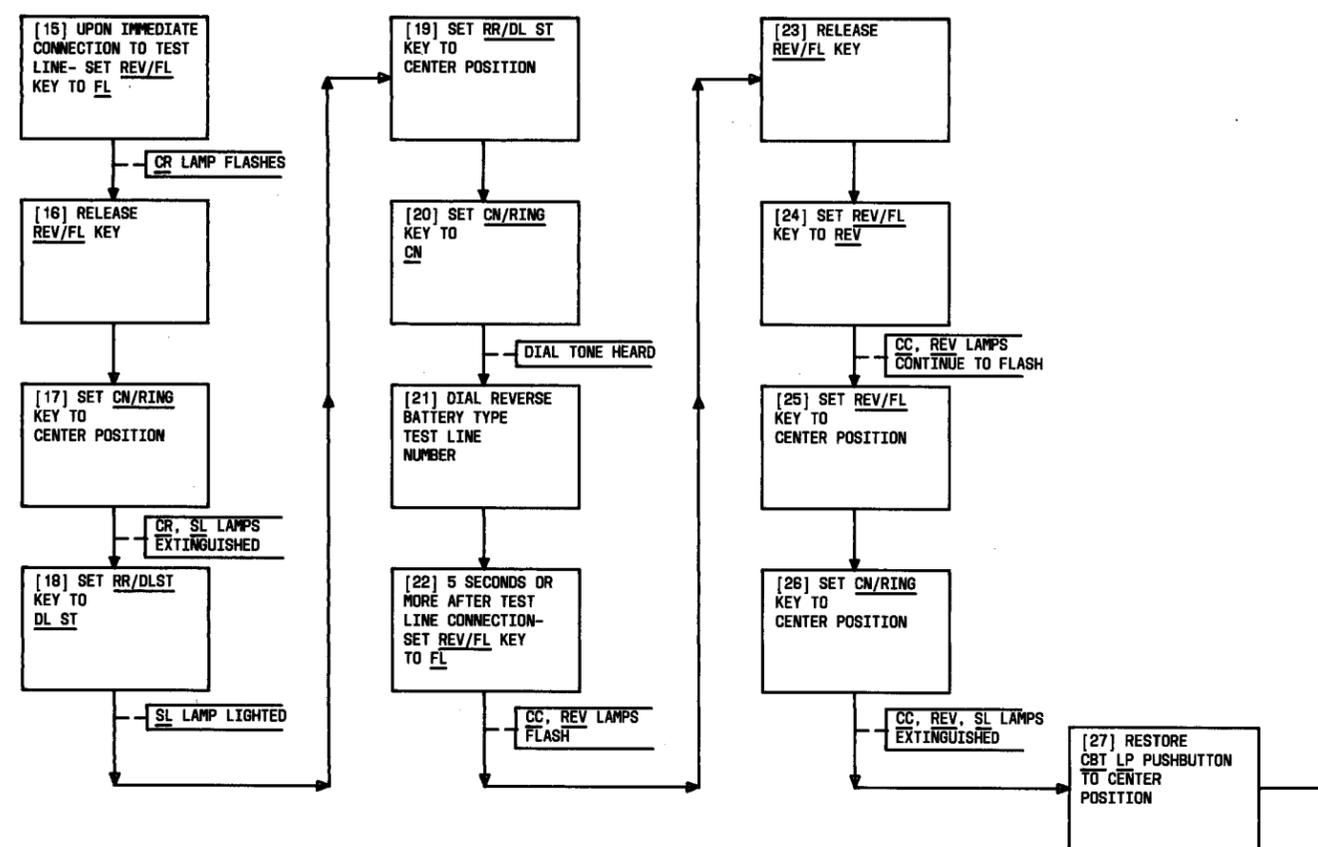


Fig. 4—Test A: Coin Collect—Loop (Sheet 2 of 2)

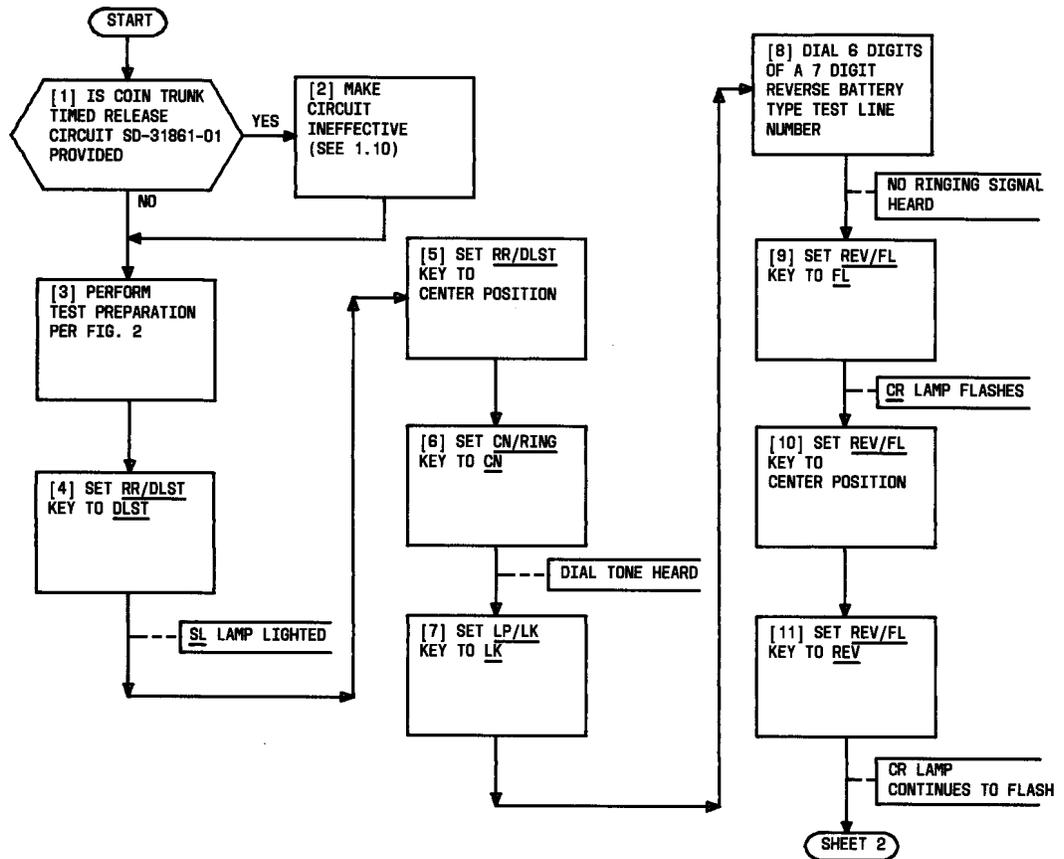


Fig. 5—Test B: Coin Return—Leak (Sheet 1 of 2)

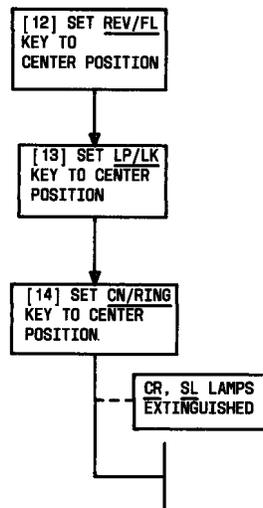


Fig. 5—Test B: Coin Return—Leak (Sheet 2 of 2)

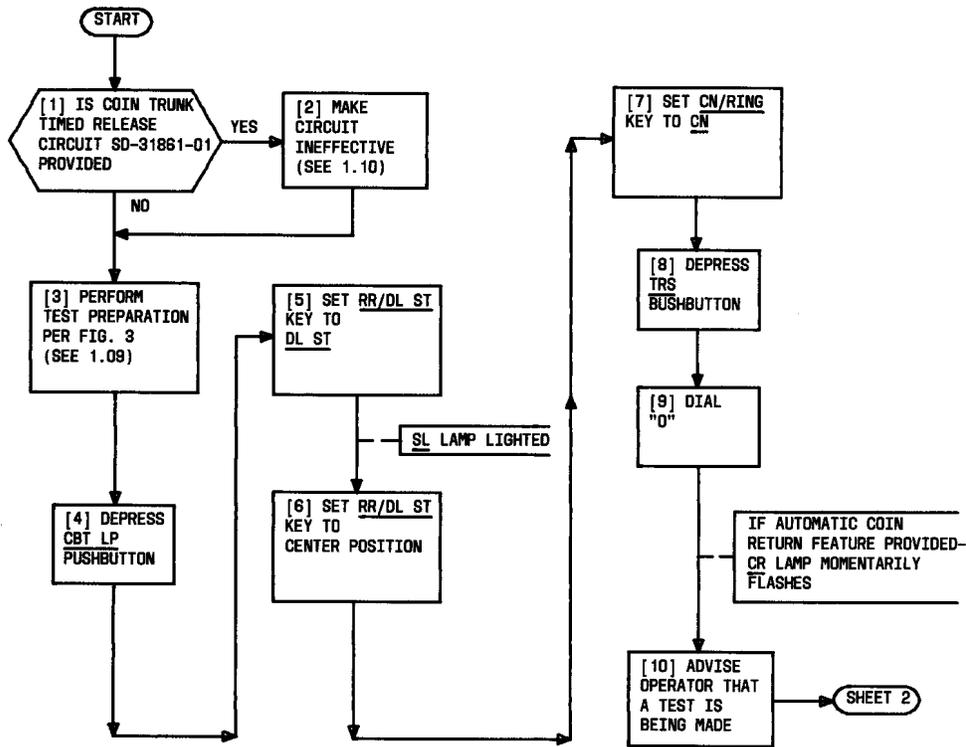


Fig. 6—Test C: Operator Cut-Through and Ringback (Sheet 1 of 2)

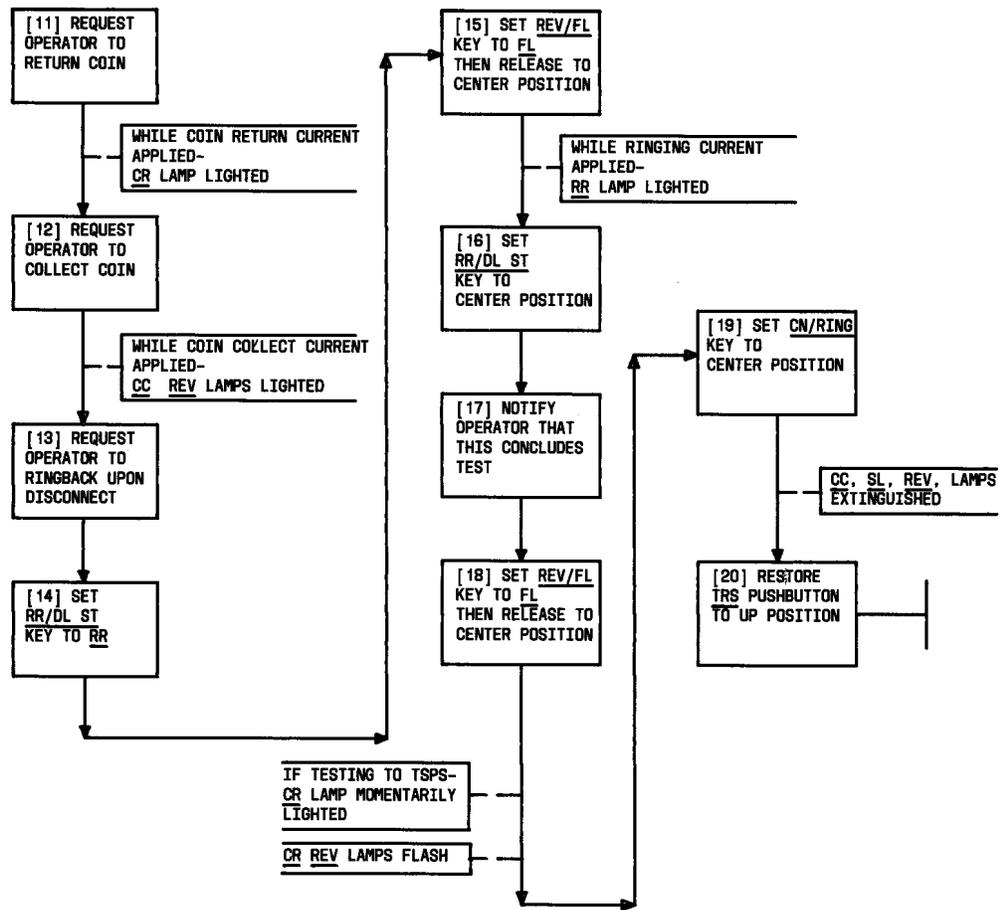


Fig. 6—Test C: Operator Cut-Through and Ringback (Sheet 2 of 2)

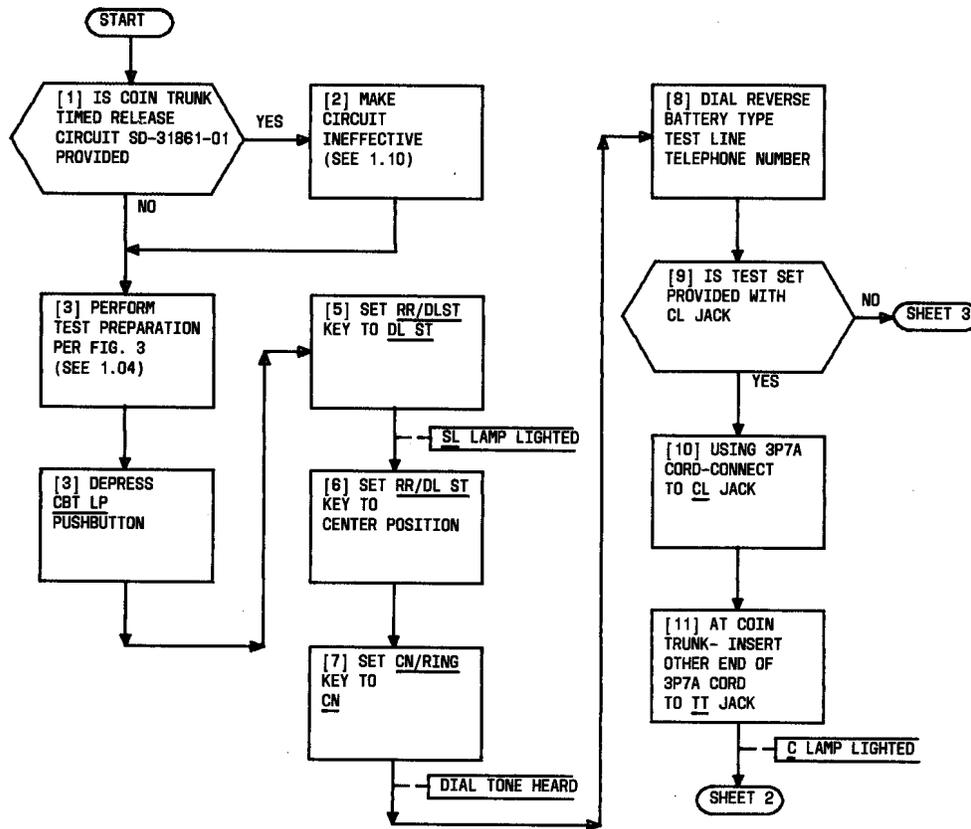


Fig. 7—Test D: P1 Relay Release Test (Sheet 1 of 4)

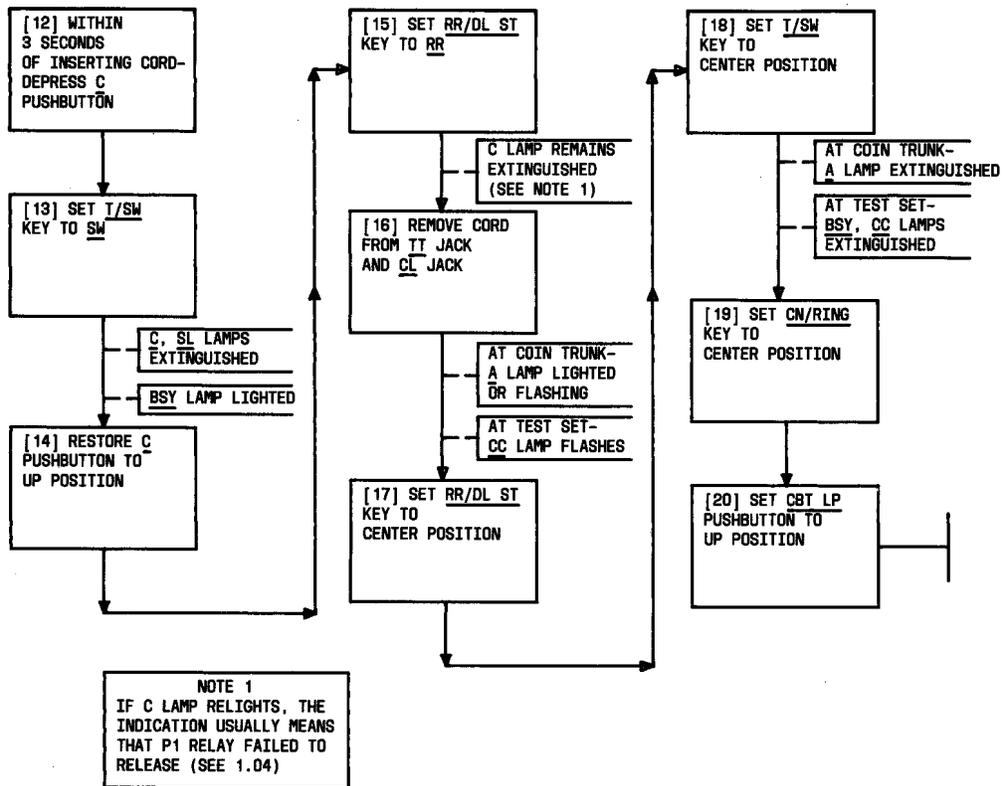


Fig. 7—Test D: P1 Relay Release Test (Sheet 2 of 4)

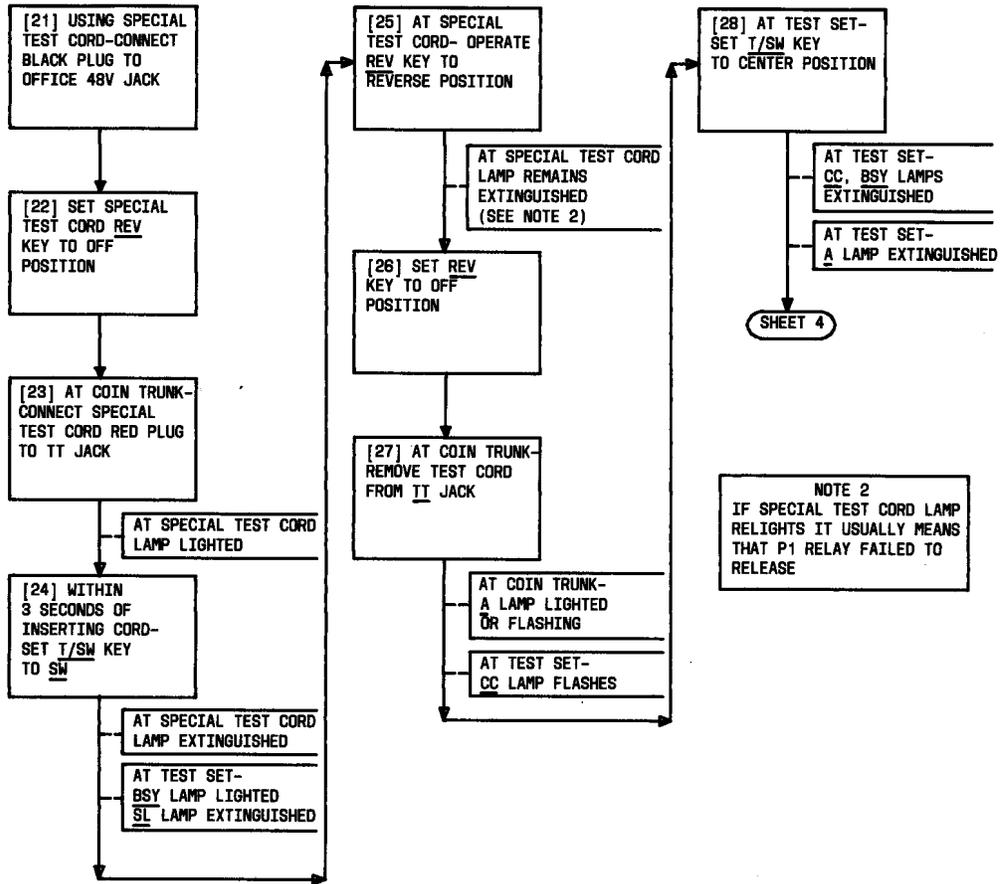


Fig. 7—Test D: P1 Relay Release Test (Sheet 3 of 4)

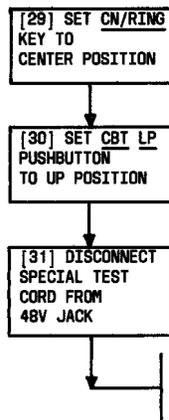


Fig. 7—Test D: P1 Relay Release Test (Sheet 4 of 4)

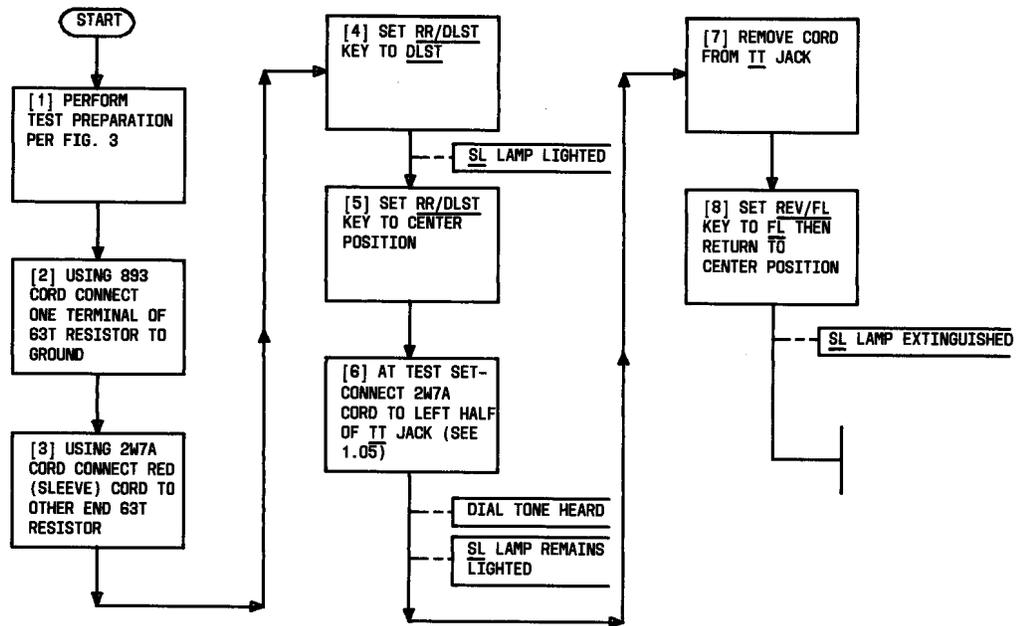


Fig. 8—Test E: RT Relay Operate Test

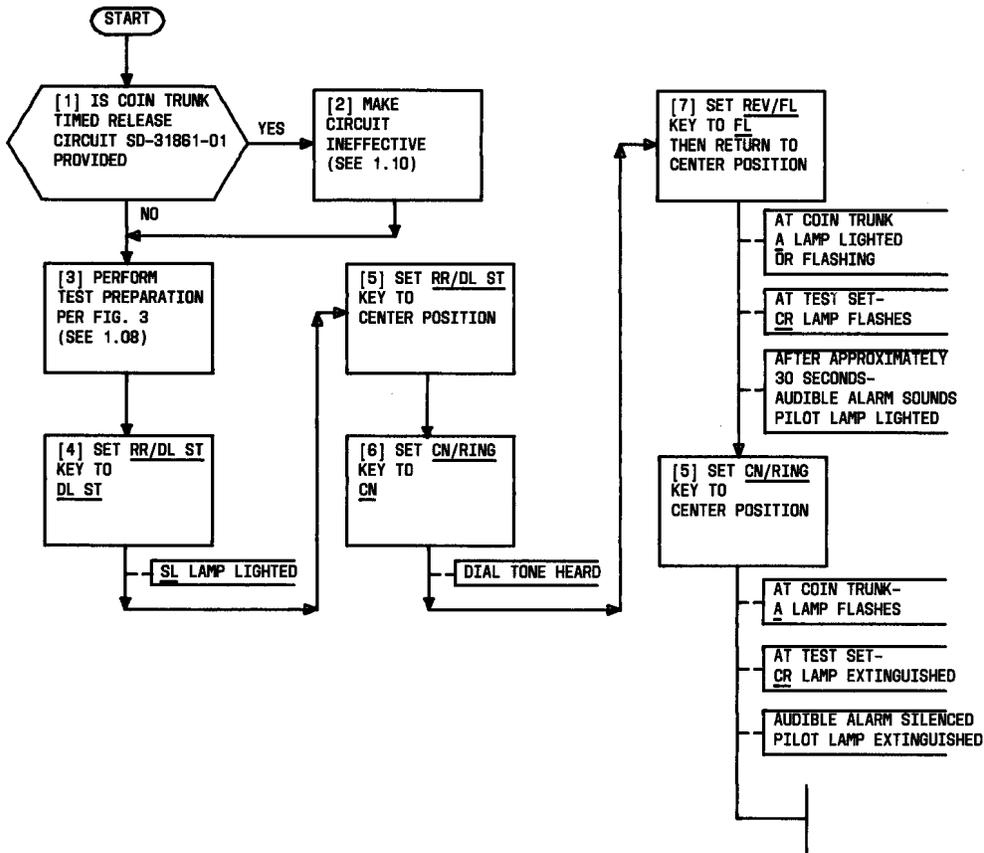


Fig. 9—Test F: Stuck-Coin Alarm Test

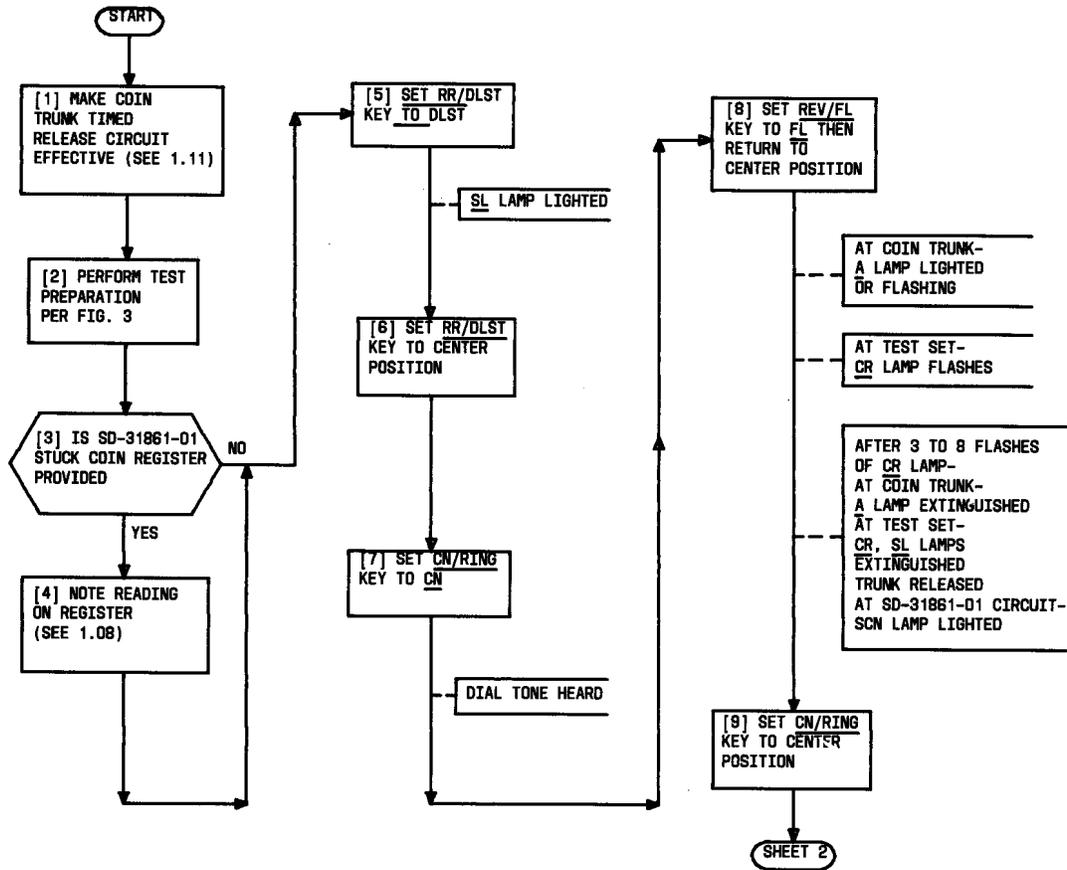


Fig. 10—Test G: Coin-Trunk-Timed-Release Circuit Test (SD-31861-01) (Sheet 1 of 2)

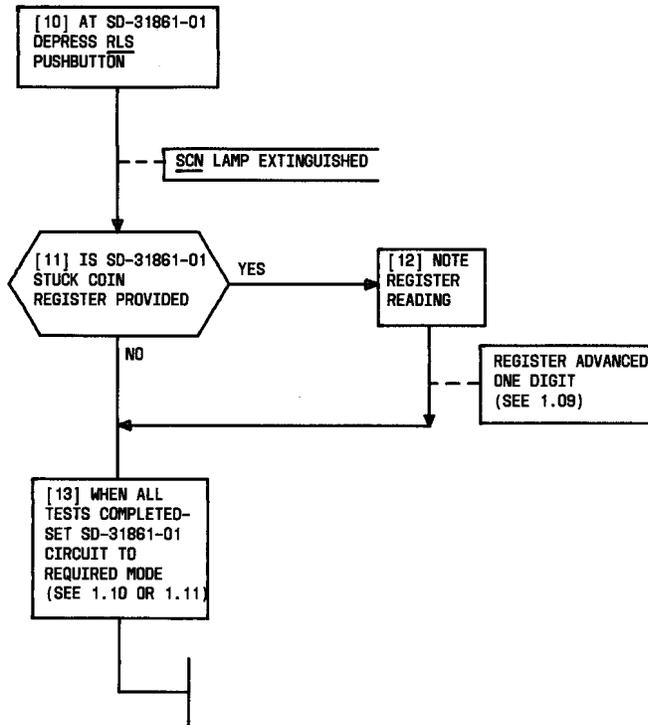


Fig. 10—Test G: Coin-Trunk-Timed-Release Circuit Test (SD-31861-01) (Sheet 2 of 2)