ROTARY OUT-TRUNK SWITCH SD-32253-01
OPERATION TEST
USING DIAL HAND TEST SET
STEP-BY-STEP SYSTEMS

1. GENERAL

1.01 This section describes a method of testing the rotary out-trunk (ROT) switch SD-32253-01, using the dial hand test set.

1.02 This section is reissued to:

(a) Add apparatus and steps to test that ROTS will step off busy terminal when K option is provided

(b) Add apparatus and steps to check class-of-service tone using resistance ground.

1.03 The test checks the switch operation, continuity to a switchboard position, class-of-service tone where provided, the all-trunks-busy tone, flashing supervison, holding, and disconnect.

1.04 The testing time of any one switch should be held to a minimum since service may be adversely affected if the switch is held busy for too long a time.

1.05 This test requires action and verification at the switchboard.

2. APPARATUS

2.01 1014A dial hand test set (handset), connected to a W2CK cord, 5 feet long, equipped with a 471A jack and a 310 plug (2W38A cord) (for use in connecting handset to switch test jack).

2.02 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip with one 108 cord tip, and one 624B tool (for use in connecting ground to wrapped-wire A terminal).

2.03 ▶893 cord, 3 feet long, equipped with two 360A tools (1W13A cord) and two 419A tools. Used to strap contacts of T jack when K option is provided.

2.04 Resistor, 3000 ohm (63W or equivalent) (used for resistance ground class-of-service test).

2.05 Two 893 cords, 3 feet long equipped with 360A tools (1W13A cord), three KS-6278 connecting clips, one 108 cord tip, and one 624B tool (used to connect resistance ground to unit terminal strip in class-of-service tone test).◀

3. PREPARATION

STEP	ACTION	VERIFICATION
1a	▶If CT diode (K option) is provided— Using 1W13A cords, strap contacts 2, 3 of each T jack.◀	

STEP	ACTION	VERIFICATION
4. METHOD		
STEP	**ACTION**	**VERIFICATION**
2	With handset switch in MON position— Insert 310 plug of handset into switch test jack.	No conversation or dialing heard in receiver. ***Note:*** If conversation or dialing is heard, disconnect from jack and wait, or continue test on succeeding switch.
3b	▶If testing circuit requiring direct ground for class-of-service tone—◀ Using 1W13B cord, connect ground to terminal of incoming A lead on unit terminal strip.	
4c	▶If testing circuit requiring resistance ground for class-of-service tone— Using two 1W13A cords, connect 3000 ohm resistor (63W or equivalent) between ground and incoming A lead on unit terminal strip.◀	
5	Operate SP relay manually.	Busy tone heard in receiver.
6	Release SP relay.	Busy tone stops.
7	Operate handset switch to TALK.	Switch cuts through to switchboard at once if standing on idle trunk terminal, or steps to next idle terminal and cuts through if standing on a busy trunk terminal. Ringing induction heard. At switchboard— Call is answered. ***Note:*** If call is answered in less than 4 seconds, ringing induction may not be heard.
8	At switchboard— Verify that proper class-of-service tone was heard.	
9	Release and operate TALK key on handset several times to test holding and supervision.	At switchboard— Verify that supervisory lamp flashed.
10	At switchboard— Remove plug from trunk jack and reinsert it.	At switchboard— Verify that proper tone was again heard.
11	▶If CT diode (K option) is provided— Request operator to leave plug in trunk jack approximately 30 seconds after receiving disconnect signal.	

STEP	ACTION	VERIFICATION
12	At switch test jack— Remove and reinsert plug of hand test set before operator disconnects.	Switch steps to next idle trunk.◀
13	Remove handset plug from switch test jack.	
14	Remove ground connection from terminal strip A lead.	
15	Repeat Steps 1 through 12 on all remaining ROT switches.	
16	▶If CT diode (K option) is provided— Remove straps from contacts of T jacks.◀	