
TYPE O AND ON CARRIER TELEPHONE SYSTEMS—TERMINALS AND JUNCTIONS

PRELIMINARY TESTS—CHECK OF ALARM OPERATION

A 48V fuse alarm and a CARR 3700-Hz alarm are located at the terminal. The 48V fuse alarm operates when the -48V fuse blows. The CARR 3700-Hz alarm operates if the +130V fuse blows (resulting in the loss of carrier and 3700-Hz signaling supply) with failure of the received carrier and the loss of the 3700-Hz oscillator signal.

This section is reissued to add a warning before step 7. Since this issue is of a general nature, change arrows are omitted. This reissue does not affect the Equipment Test List.

A +130V fuse alarm and a -48V fuse alarm are located at the junction. A blown fuse will operate the respective alarm.

The purpose of this test is to check the operation of terminal alarm circuits.

Note: This test must be repeated for each group.

APPARATUS:

1—W1AF Cord

1—411B Tool (connected to W1AF cord to check fuse alarms).

STEP

PROCEDURE

Fuse Alarm Operation

- 1 Insert the tip of the No. 411B tool (attached to the W1AF cord) into the aperture of the fuse block cap and touch the alarm lead ring with the other end of the W1AF cord causing an alarm.

Requirement: All alarms associated with the particular fuse should operate.

CARR 3700-Hz Alarm

Note: Section 362-105-501, Step 3 covers preparation of the terminal. This step blocks the CA relay and removes the 313C tube. Assuming that this step has been done, proceed with the following.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

STEP	PROCEDURE
2	At both terminals unblock the CA relay and reinsert the 313C tube. If the CARR 3700 lamp is lighted, press the REST SYS key to extinguish the lamp.
3	At one terminal cause a carrier failure by grounding the OUT pin jack on the group transmitting unit. This failure should cause the CARR 3700 lamp to light and initiate a carrier alarm at both terminals after about two to four seconds.
4	At both terminals operate the ALM RLS key to silence the alarm.
5	Remove the ground from the OUT pin jack. After about two minutes operate the REST SYS key at both terminals. Operating the key should extinguish the CARR 3700 lamp and cause the alarm to operate.
6	At both terminals restore the ALM RLS key to silence the alarm and restore the system to normal.
Note: Steps 7 through 11 are valid only if channel position 1 at both terminals has built-in 3700-Hz signaling.	
Warning: <i>When the terminal is in the alarm condition, the 3700 Hz relay has a 48 volt potential on the cover and case. This can cause shock to personnel performing maintenance or trouble tests.</i>	
7	Allow time for the regulators to stabilize. To check the 3700-Hz alarm and the loop signaling path, ground the 3700 jack on the group oscillator unit. Ground should cause an alarm and light the CARR 3700 lamp at both terminals.
8	Remove ground from the 3700 pin jack.
9	At one terminal hold the TST A key operated while the TST B key is operated intermittently. The TST lamp at the same terminal should light whenever the TST B key is operated.
10	If proper lamp operation is obtained at each terminal, operate the REST SYS key, silencing the alarm, extinguishing the CARR 3700 lamp, and restoring the system to normal. If an assigned local number (or other means) is used at an unattended location to permit restoration of the alarm from an attended office, this method should be used to clear the alarm condition and to restore normal operating conditions.
11	Repeat the procedure at the other terminal.
