

**TYPE O CARRIER TELEPHONE SYSTEM — REPEATERS  
TESTS AND ADJUSTMENTS — GENERAL  
POWER TRANSFER AND ALARM TESTS — VENTILATING FAN TESTS**

The power transfer and alarm tests are made only when the first repeater in the cabinet is installed. Two procedures are given, one for pole mounted repeaters with a reserve power supply and the other for pole mounted repeaters without reserve power supply.

Also included in this section is the test for ventilating fans located in the top of the pole mounted cabinet.

**APPARATUS:**

1 — KS-14510 L5-Volt-Ohm-Milliammeter

**POWER TRANSFER AND ALARM TESTS**

STEP	PROCEDURE
	<b>POLE MOUNTED REPEATERS WITH RESERVE POWER SUPPLY</b>
1	<p>Power should be applied to the repeater or repeaters from the 130V rectifier in the normal manner.</p> <p>Connect a KS-14510 L5 volt-ohm-milliammeter on the 300V scale between the +FIL CUR jack on the fuse panel and a GRND jack. Note the voltage and trip the CARR EQPT circuit breaker to the OFF position.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>(a) In less than one second the voltage at the +FIL CUR jack should be restored to a value of not less than +115 volts.</li> <li>(b) Check that ground appears on the A terminals of TS2 in the alarm filter panel if provided.</li> </ul>
2	<p>Restore the CARR EQPT circuit breaker to the ON position.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>(a) The voltage at the +FIL CUR jack should return to the value noted in Step 1 before the CARR EQPT circuit breaker was operated to the OFF position.</li> <li>(b) Ground should disappear from the A terminals of TS2 on the alarm filter panel if provided.</li> </ul>

STEP	PROCEDURE
3	<p>Remove the +130V fuses from the fuse blocks in the fuse panel of the mounting being tested. Insert a blown fuse in each of the 130V fuse block positions in turn.</p> <p><b>Requirements:</b></p> <p>(a) The +130V lamp on the fuse panel should light.</p> <p>(b) Ground should appear on the A terminals of TS2 on the alarm filter panel if provided.</p>
4	Reinsert good +130V fuses.
<b>POLE-MOUNTED REPEATERS WITHOUT RESERVE POWER SUPPLY</b>	
5	<p>Power should be applied to the repeater or repeaters from the +130V rectifier in the normal manner. Trip the CARR EQPT circuit breaker to the OFF position.</p> <p><b>Requirement:</b> Ground should appear on the A terminals of TS2 on the alarm filter panel if provided.</p>
6	<p>Restore the CARR EQPT circuit breaker to the ON position.</p> <p><b>Requirement:</b> Ground should disappear on the A terminals of TS2 on the alarm filter panel if provided.</p>
7	<p>Remove the +130V fuses from the fuse blocks on the fuse panel of the mounting being tested. Insert a blown fuse in each of the +130V fuse block positions in turn.</p> <p><b>Requirements:</b></p> <p>(a) The +130V lamp on the fuse panel should light.</p> <p>(b) Ground should appear on the A terminals of TS 2 in the alarm filter panel if provided.</p>
8	Reinsert the good +130V fuses.
STEP	PROCEDURE
<b>VENTILATING FAN TESTS</b>	
1	Remove the ac plug from the FAN receptacle at the upper left-hand side of the cabinet. Trip the CARR EQPT circuit breaker to the OFF position.
2	Loosen the lower screw holding the phenol fiber cover on the terminal strip which is mounted on the bracket supporting the voltage regulator. This is also in the upper left portion of the cabinet. Turn the phenol fiber cover so that the terminals are accessible.

STEP	PROCEDURE
3	Strap terminals 2 and 3 of the terminal strip together. This simulates the action of the thermostat when the cabinet temperature is above 116° F (max). The thermostat itself is not tested in these tests.
4	Reinsert the ac plug in the FAN receptacle and throw the circuit breaker to the ON position.  <i>Requirement:</i> The two fans in the top of the cabinet should start and run smoothly in a direction such as to exhaust air from the cabinet.
5	Again trip the CARR EQPT circuit breaker to the OFF position and remove the plug from the FAN receptacle.
6	Remove the strap from terminals 2 and 3 of the terminal strip, put the phenol fiber cover in place, reinsert the plug in the FAN receptacle and throw the circuit breaker to the ON position.