METHOD OF OPERATION
LINE CIRCUIT
Test & Plugging Up - In Connection With Jack Boxes At M.D.F. - Special Outgoing
Trunk Test Board - Machine Switching System.
SOUTHWESTERN BELL TELEPHONE COMPANY.

GENERAL DESCRIPTION

1. This circuit is used to connect subscribers' lines that are out of order from
the M.D.F. directly to the sender monitoring position of a special outgoing trunk test
board.

DETAILED DESCRIPTION

OPERATION

2. When the clips are connected to an out-of-order line at the main distributing
frame, and the associated plugs inserted in the jacks at the jack box the green lamp
lights. The central office end of the line is disconnected as the circuit is estab-
lished directly from the incoming line to the sender monitoring position of the special
outgoing trunk test board. When ringing current is applied to the line the (L) relay
operates through the 475 ohm winding. The (L) relay operated looks to ground through
its 525 ohm winding, causing the white lamp to light. When the plug of the talking
cord is inserted in the jack at the outgoing test board position the (L) relay is
released, extinguishing the white lamp.

3. Assuming that the plug is inserted in the jack at the jack box is connected
to a line that is grounded on the ring side, or to a short-circuited line, the (L-1)
relay will operate, lighting the red lamp. The operation of the #240-A key causes
the red lamp to be extinguished. When the trouble is removed from the line the red
lamp relights. The #240-A key restored to normal causes the red lamp to be extin-
guished. When the plugs are removed from the jacks at the jack box the (L-1) relay
releases and the green lamp is extinguished.
<table>
<thead>
<tr>
<th>OPERATE</th>
<th>NON OPERATE</th>
<th>RELEASE</th>
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</thead>
<tbody>
<tr>
<td>B35 (L) relay</td>
<td>TEST .0045 AMP.</td>
<td>TEST .0013 AMP.</td>
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<tr>
<td>outer wdg.</td>
<td>RE-ADJ. .0042 AMP.</td>
<td>RE-ADJ. .0014 AMP.</td>
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<tr>
<td>(525 ohms)</td>
<td></td>
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<tr>
<td>Inner wdg.</td>
<td>TEST .0065 AMP.</td>
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<tr>
<td>(475 ohms)</td>
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<td></td>
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<tr>
<td>B97 (L-1)</td>
<td>AFTER A SOAK OF</td>
<td>AFTER A SOAK OF</td>
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<td></td>
<td>APPROXIMATELY .015</td>
<td>APPROXIMATELY .015</td>
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<td>AMP. TEST .0075 AMP.</td>
<td>TEST .0026 AMP.</td>
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<td></td>
<td>AMP. RE-ADJ. .005 AMP.</td>
<td>RE-ADJ. .0028 AMP.</td>
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ENG.--WHL-JO. 1-5-22. CHK'D.--FAB. APPROVED - C. L. SLUYTER, G.M.L.