

BELL SYSTEM PRACTICES
Plant Series

This Practice Released on:.....

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SECTION 218-397-906PT
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B.S.P.M. #..... O. & E. List #.....

TEST PROCEDURES
LINE PATTERN CIRCUIT

1. DESCRIPTION

1.1 This section describes test methods to verify operation of line pattern circuit relays VGT-, HGT- and VFT- relays. (ST-521115)

1.2 These tests can only be made before the equipment is placed in service or in conditions of very light traffic.

1.3 These tests will also verify cabling between Line Pattern Connector Ckt. and Line Pattern Ckt.

1.4 Tester shall apply all precautions normally used when testing energized high voltage circuits, including wearing rubber gloves.

1st Frame

Relay	Terminal
VGT0	00-04
VGT1	10-14
VGT2	20-24
VGT3	30-34
VGT4	40-44
VGT5	50-54

2nd Frame

Relay	Terminal
VGT6	00-04
VGT7	10-14
VGT8	20-24
VGT9	30-34
VGT10	40-44
VGT11	50-54

2. TEST EQUIPMENT

2.1 Cord

AMT	TELCO	W.E. Co. ITE	LGTH	CDRS
1	1W4A	9536	12	1

One end of cord equipped with alligator clip and other end with test pick.

2.2 Rubber gloves

3. TEST OPERATIONS

CAUTION: When making these the test pick will be at +165 potential.

3.1 Attach test cord clip end to MRS- TP power at terminal strip (C), punching 47 of ST-52115 or at 1-1/3 amp fuse of power supply. Avoid crosses to adjacent terminals. Block operated relay TOJ and DMS.

3.2 Check for false - 48V on all terminals of all HG- Terminal strips.

3.3 One man should verify operation of relays VGT-, HGT- and VFT- while another applies the test pick to terminals 00-54 of the HG- terminal strip of ST-521129.

3.4 VGT-, HGT- and VFT- relays should operate according to the following table:

HGTO-9	T.S. (HGO-9) (all terms.)
VFT0	00, 10, 20, 30, 40, 50
VFT1	01, 11, 21, 31, 41, 51
VFT2	02, 12, 22, 32, 42, 52
VFT3	03, 13, 23, 33, 43, 53
VFT4	04, 14, 24, 34, 44, 54

4. VERIFICATION OF VGT-, HGT- AND VFT- LEADS TO DIAL TONE MARKER

4.1 Make Dial Tone Marker busy and block operated TPC 1-4.

4.2 Block operated VFG and VGG1 and HGG at Dial Tone Marker.

4.3 At Line Pattern Connector operate VGTO manually, at Dial Tone Marker the VGTO should operate. Manually release VGTO. Manually operate VGT1 etc. until VGT 0-5 are tested.

4.4 Using the same method test the HGT- and VGT-.

4.5 At DT marker apply ground at upper winding LFK Relay the DMS Relay in Line Pattern Connector should operate.

4.6 In DT marker operate the CHA Relay and the SLR Relay in Line Pattern should operate.

4.7 If no other tests are to be made remove busy from DT marker.