

## MAIN AND INTERMEDIATE DISTRIBUTING FRAMES INSPECTIONS

### 1. GENERAL

**1.01** This section describes items to be covered when inspecting cross-connections and equipment on main and intermediate distributing frames.

**1.02** This section is reissued for the following reasons:

- (a) To change or revise the titles of inspections B, C, G, L, and P
- (b) To add inspections Q, R, S, T, and U
- (c) To make various revisions and to generally update.

Since this reissue covers a general revision, arrows ordinarily used to indicate changes have been omitted. This reissue affects the Equipment Test List.

**1.03** The approved methods for running cross-connections and for performing other work operations pertaining to distributing frame work are covered in the 069 division. Descriptions of frames and equipment used on frames are covered in the 201 division of Bell System Practices and should be thoroughly understood by the maintenance personnel before making the inspections described in this section.

**1.04** Defects found during performance of regular duties as well as those found in the course of inspections should be remedied. In some instances faults can be corrected during the course of the inspection by combining the corrective measure with the inspection, as for instance, correcting the position of heat coils in the protector mounting.

### 2. APPARATUS

**2.01** Although tools, with the exception of eye protection, are not required for actual inspection work, the regular frame maintenance tools will be necessary in order that corrective

measures may be applied as pointed out in 1.04. A list of tools is included in the 069 division practices under the various subjects pertaining to distributing framework.

### 3. METHOD

**3.01** The following inspections shall be performed to determine whether or not the condition of equipment is as stated under each of the headings.

#### (a) *Cross-Connection Wires*

- (1) Cross-connection wires are installed, terminated, and dressed in accordance with instructions in the 069 division practices.
- (2) *Dead* jumpers have been removed from frames.

#### (b) *Connections to Terminals*

- (1) *Soldered*: Connections on solder type terminal lugs are properly soldered. Particular care should be taken to see that excess solder was not used and that connections appear to have been properly heated.
- (2) *Wire-Wrapped*: Connections on wire-wrap terminals are properly made. Connections are tight with proper number of wraps.
- (3) *Quick-Connect*: Connections to quick-connect terminals are properly made.

#### (c) *Distributing Rings and Fanning Strips*

- (1) Distributing rings are securely fastened and in proper alignment.
- (2) Insulation on rings is not cracked or broken in such a way as to injure the wire insulation when running cross-connections.
- (3) Fanning strips are not cracked or broken in such a way as to cause injury to

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personnel or cause damage to wire insulation when running cross-connections.

### (d) *Terminal Strips and Lugs*

- (1) Terminal strips are securely fastened to the frame with the full number of mounting screws.
- (2) Assembly screws are tight and none are missing.
- (3) Terminal strips are in alignment and none are missing.
- (4) Terminal lugs are not bent or broken.
- (5) Spare terminal lugs are clean.
- (6) Terminal strips and lugs are free from wire clippings, loose solder, corrosive salts, or any other foreign matter even though it appears that a cross will not result.
- (7) Terminal strip guards or shields are properly installed and none are cracked, broken, or missing; hinges and retaining clips are not missing.

### (e) *Cabling*

- (1) Cabling does not sag to such an extent that it may become chafed from the running of jumpers or so that it may be subject to any other injury.
- (2) Stub cables from protector mountings or connectors should be neatly dressed and laced to transverse members on vertical side of main distributing frames.
- (3) Tie cords and lacing are in proper place and are not broken.

### (f) *Jack Boxes*

- (1) Jack boxes are securely fastened to frame.
- (2) Jacks are securely fastened in box.

### (g) *Protector Springs, Jack Springs, and Protector, Jack, or Connector Lugs*

- (1) Springs are fastened tightly in mounting and are in proper alignment.
- (2) Jack springs are making proper contact.
- (3) Springs or lugs are neither bent nor broken.
- (4) Spare lugs are clean.
- (5) All protector or connector apparatus should be securely mounted to vertical bars.

### (h) *Protector Blocks*

- (1) Protector blocks are properly assembled and placed in accordance with approved practices.
- (2) Protector mountings are equipped with proper type block.
- (3) Dummy blocks are used where this type is allowed.

### (i) *Heat Coils*

- (1) Heat coils are placed properly in mountings.
- (2) On trunks and special circuits, proper type of heat coils or dummy heat coils are used in both sides of the same circuit.
- (3) Dummy heat coils are used where this type is allowable.

### (j) *Battery and Ground Binding Posts*

- (1) Battery and ground binding posts are securely fastened.
- (2) Battery and ground leads are securely soldered to the binding posts.

### (k) *Ground Connections:* Protector ground connections are tight.

### (l) *Marking and Designation Cards*

- (1) Equipment, cable, and miscellaneous blocks are clearly marked in the approved manner so that any particular set of terminals can be located readily.

- (2) Designation cards of the proper type are correctly placed; information thereon is complete, accurate, and legible; and no designation cards are missing.
- (m) ***Service Observing Cord Hooks:*** Service observing cord hooks are securely fastened and in proper alignment.
- (n) ***Service Observing and Test Cords***
- (1) Miscellaneous cords used for service observation and testing are neatly placed and draped at the top or bottom of frame before taking horizontal direction to jack boxes or terminals.
  - (2) Cords are not run across protectors or terminal strips in a diagonal direction.
  - (3) Cords are in good working order (not frayed); plugs are not bent or broken; and contacts are clean.
- (o) ***Missing and Defective Parts:*** Frame assembly parts are fastened securely. All parts such as iron details, screws, nuts, bolts, rings, ladder guards, etc, are in proper place and not missing or broken.
- (p) ***Storage Cabinets and End Guard Storage Spaces***
- (1) Heat coil, protector block, protector unit, warning device, spare parts, and cord storage cabinets or spaces where used are in good condition and securely fastened to frame or wall.
  - (2) Contents of cabinet are arranged in an orderly manner.
  - (3) New or good material is definitely separated from defective material.
- (q) ***Special Service Devices***
- (1) Special service protective devices where required to provide special service protection (SSP) or special safeguarding measures (SSM) are installed in accordance with Sections 680-520-010, 460-110-100, and 201-203-102.
  - (2) Protective guards, caps, protector units, indicators, and terminal insulators of the proper type are used in the correct combination for special service circuits.
- (r) ***Reverse Devices***
- (1) A list should be prepared of all reverse devices (cords or plugs) found installed on frame; this list should be referred to the supervisor.
  - (2) A follow up for clearance of all reversed pairs listed should be made each 60 days.
- (s) ***Talk Circuits***
- (1) Transmission and reception are satisfactory.
  - (2) Signal lamp and pushbuttons are in working order.
- (t) ***Electric Outlets:*** Trolley duct and frame mounted outlets are in working order.
- (u) ***Testing Devices:*** Test cabinets, test boxes, marker line verification test sets, automatic number identification, etc, are in working order.

## 5. REPORTS

- 5.01** Any required record of this inspection and repair work should be entered on proper form.