

PROTECTOR FRAMES INSPECTIONS

1. GENERAL

1.01 This section describes items to be covered when inspecting the various types of protector frames used in central office buildings.

1.02 This issue affects the Equipment Test List.

1.03 Section 201-219-101 contains a description of the various types of protector frames. These types are: conventional, both single- and double-sided; low profile conventional, double-sided; modular; and high-density modular.

1.04 Defects should be corrected while performing inspections. If a defect cannot be corrected during inspection (for example, a missing printed designation card), a record should be made, identifying the defective or missing item and its frame location. This information should be given to the frame supervisor for corrective action.

2. APPARATUS

2.01 Except for eye protection devices, tools are not required for actual inspection work. Regular frame maintenance tools will be necessary for correcting some defects. Tools used for distributing frame maintenance are listed in the 069-1XX-8XX division practices.

3. METHOD

3.01 The following inspections shall be performed to determine that the conditions are as stated under each of the headings:

CONVENTIONAL PROTECTOR FRAMES (SINGLE AND DOUBLE-SIDED)

A. Protector Springs, Jack Springs, and Protector, Jack, or Connector Lugs

- Springs are fastened tightly in mounting and are in proper alignment.
- Jack springs are making proper contact.
- Springs or lugs are neither bent nor broken.
- All protector or connector apparatus is securely mounted to vertical bars.

B. Protector Blocks

- Protector blocks are properly assembled and attached to the frame.
- Protector mountings are equipped with proper type blocks depending upon the type of plant, exposed or unexposed, defined in Section 201-220-102.

C. Heat Coils

- Connectors are **completely** equipped with heat coils.
- Heat coils are placed properly in mountings.

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- On trunks and special circuits, the proper heat coils or dummy heat coils are used.

D. Mezzanine Platforms

- Designation boards located on the underside of the platform are securely fastened and the cable/pair designations are legible.
- Trolley ducts are working properly.
- Talk jack panels are securely fastened, and all circuits are properly identified and operating.
- Spare test cords are properly stored.

E. Rolling Ladders and Electrical Trolleys

- Trolley ducts are working properly and electrical cords are securely fastened to ladders.
- Handrails are secure.
- Ladders roll freely and, if equipped with a brake mechanism, it works properly.

LOW PROFILE DOUBLE-SIDED PROTECTOR FRAME (LPDSPF) HIGH DENSITY MODULAR PROTECTOR FRAME (COSMIC AND ESS) MODULAR PROTECTOR FRAME (COSMIC AND ESS)

F. Connectors and Protector Units

- Connectors are securely fastened to vertical structure.
- Protector units are seated correctly in connector.
- Designation cards are placed correctly.

Note: The LPDSPF is equipped with designation boards mounted across the top of the frame.

ALL UNITS

G. Jack Boxes and Panels

- Jack boxes and panels are securely fastened to framework.

- Jacks are securely fastened in jack boxes and panels.

H. Battery and Ground Binding Posts

- Battery and ground binding posts are securely fastened.
- Leads are securely connected to binding posts.
- Test battery and ground are present at terminals or jacks.

I. Ground Connections

- Protector ground connections are tight.

J. Test Cords

- Cords are neatly placed and draped at the top or bottom of the frame and do not run diagonally across protectors.
- Cords are not frayed, plugs are not bent or broken, and contacts are clean.

K. Missing and Defective Parts

- Frame assembly parts are securely fastened.
- Iron details, screws, nuts, bolts, rings, ladder guards, etc, are in the proper place and not missing or broken.

L. Storage Cabinets and End Guard Storage Spaces

- 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.
- Contents of cabinet are arranged in an orderly manner.
- New or good material is definitely separated from defective material. There is an adequate supply of new carbons, porcelain blocks, heat coils, protector units, etc.

M. Special Service Devices

- Protective guards, caps, protector units, indicators, and insulators of the proper type are used in the correct combination for special service circuits.

N. Reversing Devices

- A list should be prepared of all reversing devices found installed on frame. This list should be referred to the frame supervisor.
- Each 60 days, a follow-up inspection should be made to see if trouble conditions previously listed have been cleared.

O. Talk Circuits

- Transmission and reception are satisfactory.

- Signal lamps and pushbuttons are in working order.

P. Electric Outlets

- Frame mounted outlets are in working order.

Q. Testing Devices

- Test cabinets, test boxes, line verification, test sets, etc, are in working order.

4. REPORTS

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