POLAR RELAYS
209, 215, 228A, MODIFIED 228A (D-160118), 255A
AND SIMILAR DEMOUNTABLE TYPES
TESTS AND INSPECTIONS

1. GENERAL

1.01 This section covers tests and inspections of the 209FA, 209FB, 209FC, 209FM, 215A, 228A, modified 228A (D-160118), 255A and similar type polar relays with or without tungsten contacts when used in telegraph, teletypewriter, 44A echo suppressor, composite signaling system, and other circuits employing demountable type polar relays.

1.02 This section is reissued to change the title, to add 255A and modified 228A relays, and to make reference to additional types of polar relay testing equipment. The scope of the section is expanded to include composite signaling systems.

1.03 The tests and inspections described in this section are intended for use in determining whether or not the relay is suitable for service.

1.04 The electrical requirements and the method of operation of the testing equipment are covered in Sections 040-231-711, 040-231-712 and 040-231-716. The mechanical requirements and adjusting procedure for the particular type of relay involved are covered in Sections 040-231-701, 040-232-701 and 040-240-701. Defects found upon test or inspection shall be corrected in accordance with these sections.

2. APPARATUS

2.01 Testing arrangements approved for the particular service and relay involved, such as 111A2 and 116A1 test panels or 209 relay test circuit.

3. METHOD

3.01 Relays which have been removed from service because of actual or suspected troubles or for the purpose of routine tests should be inspected for the following requirements:

(1) Tightness of cover.

(2) Straightness of terminals and tightness of associated lock nuts.

(3) Tightness of mounting posts.

3.02 Inspect the relay contacts to see that there are no pits or build-ups.

3.03 With the cover in place on the relay, check for the electrical requirements in accordance with the "Test" limits, using the testing arrangement specified in Paragraph 2.01.

3.04 If the relay under test meets the test requirements it should be considered satisfactory for service and no change should be made in its adjustment.