

**SERIES 1000, TYPE 1001 CHANNELS  
SIGNALING, SUPERVISORY  
CONTROL AND TELEMETERING  
CIRCUITS, 0 TO 15 Hz**

CONTENTS	PAGE
1. GENERAL . . . . .	1
2. PRESERVICE COORDINATION . . . . .	1
3. INITIAL LINE-UP TESTS . . . . .	1
4. TROUBLE SECTIONALIZATION . . . . .	1

**1. GENERAL**

**1.01** This section provides information for lining up, testing, and operating series 1000, type 1001 telegraph channels in the range of 0 to 15 Hz (up to 30 bauds).

**1.02** Information that applies to specific services only is included in the appendices to this section.

**1.03** Type 1001 circuits are used for remote metering, supervisory control, and miscellaneous signaling purposes, generally with customer owned and maintained station equipment. One exception is the SC2 supervisory control system employing telephone company equipment. The maximum signaling rate of 30 bauds is below normal teletypewriter speeds, but standard teletypewriter test equipment and methods may be employed, as outlined here.

**1.04** Methods and procedures to assure that telephone company facilities function properly, as well as means of identifying troubles that may occur, are covered in this section.

**2. PRESERVICE COORDINATION**

**2.01** An Intercompany Service Coordination (ISC) team may be set up to coordinate these services, as covered in Section 010-520-100. Information on baud rates, signaling codes, format, and any other necessary data, if not included in service orders, should be supplied to all points by the control team or network control office.

**3. INITIAL LINE-UP TESTS**

**3.01** In preparing a circuit for service, section and overall circuit tests should be made as covered in other sections using standard 60-speed signals (45.55 bauds). Type 911 test sets, where available, are recommended for both STC and station use.

**3.02** Each section, as well as the complete circuit, should be lined up to meet distortion requirements applicable to 60 speed.

**3.03** Waveshaping should be applied as required to dc loops operating with relay-type repeaters. The waveshaper should be adjusted for minimum distortion at 60 speed, as measured at the STC.

**3.04** Loop condition indicators (Section 460-110-101) may be provided on dc-operated loops.

**4. TROUBLE SECTIONALIZATION**

**4.01** Since type 1001 circuits are often used for remote control of customer equipment, no action should be taken that might interfere with normal service or cause false operations. Usual procedures should be followed in obtaining releases,

**SECTION 312-011-502**

in performing maintenance, and in advising control offices of conditions affecting the service.

**4.02** Brush oscillograph recorders may be used both for monitor and signal distortion checks.

Data quality monitors (DQMs) and signal quality monitors (SQMs) may be used in STCs where available, and where they can be calibrated at the customer's baud rate.