

TYPE ON/K CARRIER — REPEATERED HIGH-FREQUENCY LINE
GENERAL INFORMATION
TESTS AND ADJUSTMENTS — MAINTENANCE CONSIDERATIONS

1. GENERAL

1.01 This section and associated sections in this subdivision describe the methods of making tests and adjustments on the ON/K carrier telephone systems. This section is reissued to correct SCOPE of usage of the 31B TMS.

1.02 Detailed information on equipment common with O and ON carrier systems is covered in other sections in this division of Practices.

1.03 An ON/K terminal consists of 3 standard ON1 groups (or 4 ON2 groups), an ON/K combining network, a transmitting amplifier and a receiving amplifier. An ON/K repeater consists of two receiving and two transmitting amplifiers. Junctions are available for connecting ON/K to an ON1 system or an O system.

1.04 Most of the test equipment required is now used in ON or K carrier systems. The additional equipment required is covered in the individual sections.

1.05 The 31B transmission measuring set is the primary test instrument for measuring on the ON/K line. It is important that the 31B TMS be properly calibrated in accordance with B.S.P. Section E40.228. Allow at least 20 minutes for warmup time before using the set.

1.06 The sections should be followed in order with tests starting at one end of the system and working toward the other terminal. No repeater or receiving terminal should be aligned until the preceding units have been completed.

1.07 At an ON/K - ON junction, if a 31B TMS is used to measure inputs or outputs of low group frequencies of ON repeaters, an ED-92717-30 G3 adapter must be used as an extension for the ED-92717-30 G8 adapter. Terminals on the G8 adapter then measure as follows:

1-2	W-E	IN
3-4	W-E	OUT
5-6	E-W	OUT
7-8	E-W	IN