

103F-TYPE DATA SET TRANSMITTER-RECEIVER INSTALLATION

1. GENERAL

This section is reissued to include information for the data set 103F2 and to treat both data set 103F1 and data set 103F2 as 103F-type data set rather than as individual data sets.

2. INSTALLATION

2.01 For general information concerning the station installation, refer to standard practices covering installation of station sets.

2.02 The 103F-type data set is designed for desk or table top installation and use. If vertical mounting is desired, use a 180A backboard.

2.03 Locate the set so the cord from the business machine will reach the interface connector. This cord may be up to 50 feet long.

Note: The 110-volt wiring should be installed to conform with current requirements of the National Electrical Code, governmental agencies, and company standards.

2.04 The customer must furnish a 3-wire ac outlet (to accept a plug with two parallel blades and a U-shaped grounding pin). The outlet must not be under control of a switch. To avoid the possibility of data errors due to a potential difference between data set ground and business machine ground, *the outlet for the data set power cord should be served from the same ac distribution panel as the business machine.* If they are not served from the same panel, a test

using the 6A impulse counter should be used to detect the presence of noise potentials. This test procedure is described in Section 591-019-500. If test requirement is not met, data set ground and business machine ground must be bonded together. (The method of providing this bond should be in accordance with local instructions.)

2.05 The customer must provide and maintain a room temperature of 40 to 120 F for proper operation of the data set.

2.06 To minimize inductive interference to data signals on the telephone (data) line, the line should not be carried in the same run as cable between data set and customer's business machine or lines connected to dc teletypewriter services. If this condition cannot be met, it will be necessary to run telephone (data) line in type SK (shielded) station wire between data set and cable distribution terminal or building entrance. Ground shield at *one* end only, preferably the distribution terminal end.

2.07 Verify that the over-all facilities have been tested and meet transmission requirements as specified in Section 314-410-500.

2.08 Wiring options and over-all transmission requirements should be specified on the service order or circuit layout card.

2.09 Use Section 591-019-400 for wiring options and connections.

2.10 See Section 591-019-500 for tests to be performed at time of installation.