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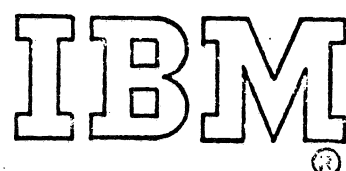
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# INSTALLATION INSTRUCTIONS

IBM PART NO. 1186645

1971  
COMMUNICATIONS  
TERMINAL

|          |           |        |        |  |  |  |
|----------|-----------|--------|--------|--|--|--|
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| DATE     | 16 FEB 67 | DEC 67 | JUL 69 |  |  |  |

## 1971 INSTALLATION INFORMATION

### 1. SPECIAL TOOLS AND TEST EQUIPMENT

The following tools should be available during installation:

CE Aid Box, PN 1272825 or EC 306818  
SLT Test Light, PN 453601  
Oscilloscope (561 or equivalent) Modem Installations  
Selectric I/O Tools

### 2. ASSEMBLY

#### A. Unpacking

The single station finance terminal (1971-30) will be delivered with one 1980 printer and with one console unit which houses a single power supply and one set of electronics.

• The dual station finance terminal (1971-35) will be delivered with two 1980 printers and with one console unit which houses two sets of electronics and power supplies.

The units should be placed as close to the designated position as possible to eliminate unnecessary moving. Unpack the units carefully, using the unpacking instructions provided as a guide. These instructions are on the outside of the packing cartons. When the installation is complete, file the unpacking instructions with this manual for future reference.

#### B. Unit Placement

The units should be moved to their final position, indicated by the customer, when all packing materials have been removed. If the power cables are to be routed under the floor, the cutout should be located at the left rear of the console unit. The left rear is defined as the corner nearest to which the red power on-off switch is located. The 1980 printer(s) will be attached to the console unit by passing the printer signal cable(s) up through the cutout(s) in the bottom of the console and attaching the 75-pin connector(s) to the mating connector(s) therein. Adjust foot of console for proper leveling.

#### C. Preparation for Reshipment

Shipping of systems and units is described in detail in the Branch Office Manual. Packing material required for shipment may be ordered from the manufacturing plant as described in the Branch Office Manual. The packing material for the 1971 communications terminal is in BM 7340966, for padded van shipment, or BM 7340961 for common carrier and export, available from IBM, RALEIGH, NORTH CAROLINA

### 3. CABLE INSTALLATION

#### A. AC Power

Voltage specifications may be found on back of stand under rear cover. Be sure to check that customer voltage matches machine requirements before installation.

Electrical Requirements

- Voltage - 115 or 208/230  $\pm$  10%
- Frequency - 60  $\pm$  1/2 CPS
- Phase - 1
- KVA - 0.15 for 1971-30 and 0.23 for 1971-35
- Service - 15 Amps
- Plug Types - Hubbell or Pass & Seymour 5267 (115 volts, nonlock)  
Hubbell or Pass & Seymour 4720 (115 volts, locking)  
Hubbell 5666 (208/230 volts nonlocking)  
Hubbell or Pass & Seymour 4770 (208/230 volts, locking)

Customer provides matching receptacle: Hubbell or Pass & Seymour 5262 for 5267 plug, 4700 for 4720 plug, 5662 for 5666 plug, 4750 for 4770 plug.

An 8-foot power cable is supplied with machine. If cables are to be routed under floor, cutout should be located at left rear of machine.

B. Data Set Cable

All data set installations should be completed prior to arrival of machine. Connection to data set is accomplished with 8-foot data set cable supplied with unit. Connection is made to rear of data set with 25 pin socket marked "Customer Equipment." Check that data set has AC voltage applied. Reverse transmission card (position A1A3), must be plugged with program cap with 103F or 202D data sets. Also, the data set interface card in position B1K4 must be programmed. See page 0140 (program cap plug chart).

C. Modem Cable

An 8-foot modem cable is supplied with units using IBM modems. All modem installations should be performed as covered in SRL "Planning and Installation of a Data Transmission System," F/N A24-3435 and FE maintenance manual, "IBM Line Adapters (Modems)," F/N 226-3004. All program cap plugging instructions for either IBM leased or shared modems are covered in F/N 226-3004-1 or higher.

D. Telegraph Cable

An 8-foot telegraph cable is supplied which is terminated with ring lugs. For attachment and adjustments, refer to F.E.-Theory Maintenance Manual, form No. Y27-0017.

4. UNIT TESTING

A. Preliminary Check

Before applying power to unit, make a complete visual check of unit for possible damage or loose parts. Check SLT gate for loose cards, edge connectors, or bent back panel pins. Check power supply mounting for damage during shipment.

B. Voltage Check

Apply power to unit and check voltages to SLT gate.

+48 Volts  $\pm$  4 volts measured at location A-B1L1D05

+12 Volts  $\pm$  .6 volt measured at location A-B1L1D03

-12 Volts  $\pm$  1 volt measured at location A-B1L1B06

C. Local Mode Test (1971)

With machine in local mode, test all typewriter functions for proper operation. Using buffer loop, perform preliminary test of electronics.

D. System Testing

- 1) Group or terminal address assignments must be programmed on cards in positions A1H5 and A1K3. See page 0130 (program cap plugging chart).
- 2) Terminal shall be checked out using 1971 system program. This program is currently being defined and will be incorporated in this manual at a later date.