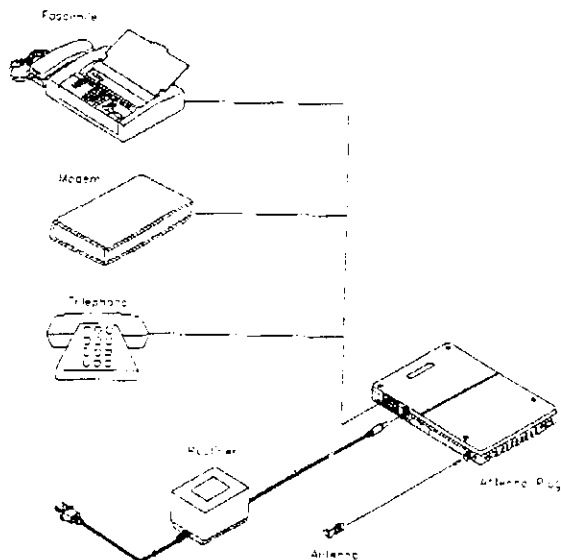


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FIXED TERMINAL T-8200

**I. Installation Manual
Installation Diagram**



1. Plug the antenna into the connector. Do not screw the antenna, turn the treads.
2. Plug one -end of the adapter into city-power, the other end into the power plug of T-8200.
3. Plug telephone set, modem or facimile into the phone jack of T-8200.
4. Important note at installation:
 - a: REN < 3.
 - b: Telephone line cord should be less than 1 kilometer.
5. Working Temperature: between -20 C and 55 C.
6. When placing antenna:
 - a: Place it around window closes to the base station.
 - b: Do not block the surronding of the antenna.
7. Keep away from microwave oven, computer and appliances such as heater, motor ,etc.
8. ESN, MIN have to be set up by technicians from the vendor.

II. When operating T-8200:

1. When making a call

a: Pick up the phone, you should hear a dial-tone. If the line is busy, hang up and try again.

b: Dial desired number, the line will be connected in 5 seconds.

2. When receiving a call

Pick up the handset after the ringer is activated.

3. For modems and fascimiles:

Operate as regular modems and fascimiles.

T-8200 Fixed Terminal Alignment Procedure

Connect the equipments as illustrated in Figure 1a or 1b.
Execute program "T8200.exe"

Turn handset on.

1. Carrier Output Power Rating and Frequency Stability
 - i. Select a channel for testing, for example : channel 10. Key the following sequence command:
"SetChannel-ENTER-10-ENTER"
(ie, key "SetChannel" , "ENTER" , "10" and "ENTER").
Note: Refer to Table 1 for frequency allocation.
 - ii. To set handset to maximum RF output power, key the following sequence command: "SetPowerLevel-ENTER-0-ENTER"
 - iii. Key command "TXCarrierTest-ENTER" to verify output power and frequency stability. Then press "ENTER" to stop transmitting.

2. Radiated and Conducted Spurious Emission
Alignment procedure is same as 1

3. Modulation Limiting and Sideband Spectrum
Connect the equipments as illustrated in Figure 1a.

3.1. Voice modulation limiting

- i. Key the following sequence command: "TXVoiceTest-ENTER-0-ENTER"
- ii. Apply a high voltage level (eg. 5 V_{rms}) 1KHz sine wave signal to MIC port of test fixture and verify the occupied bandwidth.
- iii. As step ii , verify whether 300Hz and 2.5KHz sine waves input satisfy the limitation or not.
- iv. Press "ENTER" to stop.

3.2. SAT modulation limiting

- Key command "TXSATTest-ENTER" to verify the occupied bandwidth.
Press "ENTER" to stop.

3.3. SAT + Voice modulation limiting

Apply an AF signal(eg. 5 V_{rms} 2.5KHz sine wave) to MIC port of test fixture. Key the following sequence command:

~ TXSATVoiceTest-ENTER-0-ENTER ~

Press ~ ENTER ~ to stop.

3.4.DTMF modulation limiting

Key command ~ TXDTMFTest-ENTER ~ . The default DTMF is '1'. If we want to transmit DTMF of '9',key ~ 9 ~ .

Press ~ ENTER ~ to stop.

3.5.Data modulation limiting

Key command ~ TXDataTest-ENTER ~ to verify the occupied bandwidth.

This data is generated by repeatedly transmitting a command of the protocol.

Press ~ ENTER ~ to stop.

4. Audio Frequency Response

- i. As illustrated in Figure 1c, connect the RF cable of test fixture to a receiver test(such as MARCONI INSTRUMENT 2965A).
- ii. Key the following sequence command: ~ TXVoiceTest-ENTER-0-ENTER ~
- iii. Apply an AF signal with level 100 mV_{rms} to MIC port of test fixture. Slowly vary its frequency from 0 Hz to 10KHz. Verify the frequency response.