

CHANGING DATA RATE

1. When off-hook or speakerphone is on, press **[PRGM]** to display current data rate.
2. Use **[SCROLL]** to change the data rate.
3. Use **[PRGM]** to exit.

MEMORY DIAL BUTTONS

Edit

1. Ensure the handset is on-hook and the speakerphone is off.
2. Press the memory dial button to view the current number.
3. Press **[#]** to begin entering new number.
4. Enter digits (tone and/or pulse), **[PAUSE]** or **[HOOKFLASH]**.
5. Use **[SCROLL]** to view a number exceeding 16 digits.
6. Press the same memory dial button to store the new number.

Using

1. Lift handset or turn on speakerphone.
2. Press the selected memory dial button to dial the stored number.
3. The digits are displayed and dialed.

SPEAKERPHONE

NOTE

When using the speakerphone, talk at normal tone.

Using On-Hook

1. Press **[SPKR]** to activate the speakerphone.
2. Dial the number
3. To terminate speakerphone, press **[SPKR]**.

Converting From Handset To Speakerphone

1. Press **[SPKR]**.
2. Hang-up the handset.

Converting From Speakerphone To Handset

1. Lift the handset.

OPTION MENU

NOTE

Typical operation utilizes the default settings.

Using

1. Ensure the handset is on-hook and the speakerphone is off.
2. Press **[OPTION MENU]**.
3. Use **[SCROLL]** to advance to the desired sub-menu or option.
4. Press **[#]** to enter the displayed sub-menu or change option (except Ring Detect Frequency).
5. Press **[OPTION MENU]** to exit.

Available User Options

(Selection) *Default State*

- Modem setup tones (ON or OFF) *OFF*
- Data rate (75, 110, 300, 600, 1200, 2400, 4800, 9600, synchronous) *9600 bps*
- Clear mute (ON or OFF) *OFF*
- Autosecure on answer (ON or OFF) *OFF*
- Pause duration (1 to 9 seconds) *2 seconds*
- Duplex mode (half or full) *full*
- Key Certification Authority number (entered by user) *empty*
- Secure Retry (On or OFF) *ON*

Available Special Options

(Selection) *Default State*

NOTE

The Master CIK, Master TAK, valid SAK or valid TAK must be inserted.

- Speakerphone (enabled or disabled) *enabled*

Available TELCO Options

(Selection) *Default State*

- Make/Break (60/40, 65/35 or 71/29) *60/40*
- Pulse type (n, n+1 or 10-n) *n*
- DTMF level (low, med or high) *med*
- Ring detect frequency (any value between 14-68 Hz) *14-68 Hz*
- Hookflash duration (short, medium or long) *med*
- MI/MIC (enabled or disabled) *disabled*
- Transmit level (fixed or variable) *fixed*

STU III/SECTEL® 2500

QUICK REFERENCE GUIDE

Export of this item is restricted in accordance with export control regulations issued pursuant to United States law.

The STU III/SECTEL 2500 (Figures 1 and 2) combines Secure/Clear Voice and Secure Data communication into one, easy-to-use telephone.

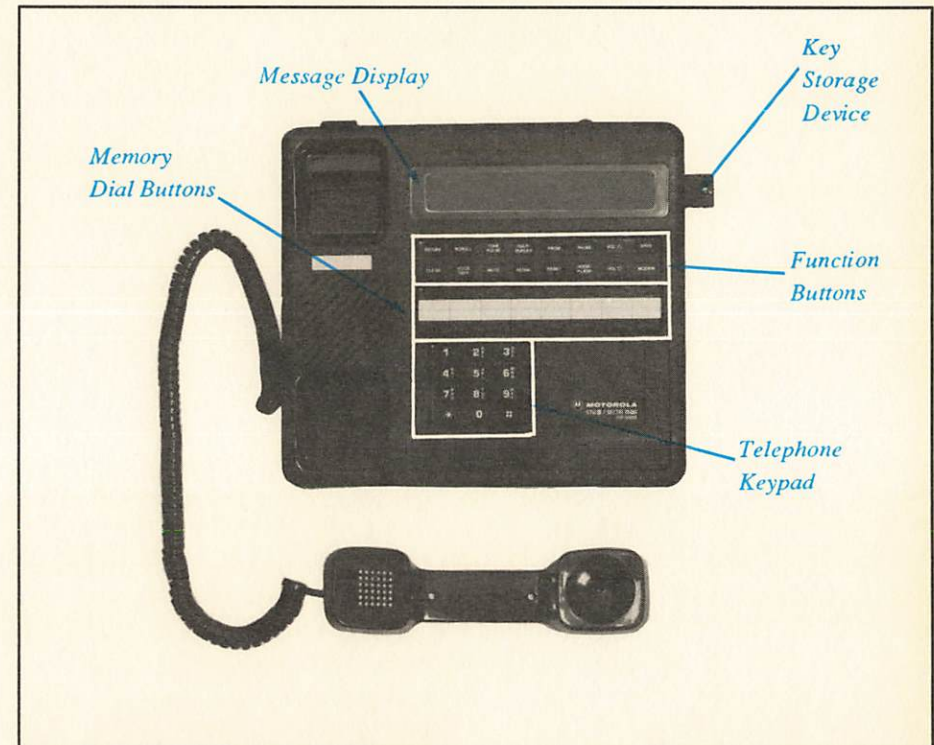


Figure 1. STU III/SECTEL 2500 Top View

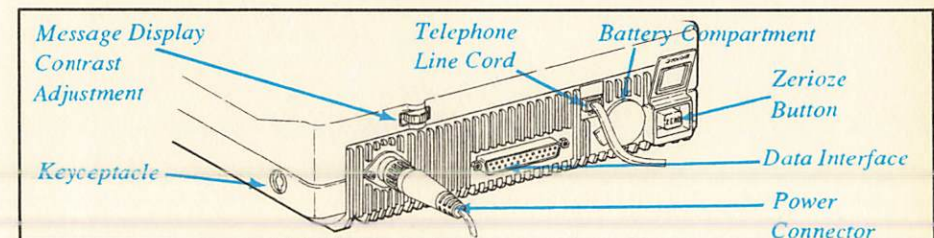


Figure 2. STU III/SECTEL 2500 Back View

MESSAGE DISPLAY

The message display (Figure 3) shows keypad entries, messages, and prompts. Rotate the contrast adjustment knob to reach desired level of contrast. The alphanumeric portion, located in the center, consists of two rows of 16 characters each, and shows letters, numbers, and symbols. The annunciators, located on both sides of the alphanumeric portion, indicate the current telephone operating mode and dialing parameters.



Figure 3. Message Display

ANNUNCIATORS

SECURE/CLEAR Indicates whether the telephone is operating in secure or clear mode.

MUTE Indicates that the handset and speakerphone are muted.

VOICE/DATA Indicates whether the telephone operates in voice or data mode.

TONE/PULSE Indicates whether the telephone will send tone or pulse dialing signals when the user dials phone numbers.

SPEAKER Indicates the speakerphone is on.

PRGM Indicates the telephone is operating in the configuration mode.

HD Indicates the telephone operates in half duplex, secure mode.

2.4/4.8/9.6 Indicates the telephone operates at 2400, 4800 or 9600 bps in the secure mode.

FUNCTION KEYS

[SECURE] Converts a clear call to a secure voice or secure data call. Also used to initiate a resync during a secure call.

[CLEAR] Converts a secure voice or secure data call to a clear call. Also used to enable clear calls during power loss.

[SCROLL] Advances the message display for additional information.

[VOICE/DATA] Selects between secure voice and secure data modes.

[TONE/PULSE] Selects between the tone and pulse dialing mode.

[MUTE] Disables the handset and speaker microphone, to prevent the sending of sound or conversation to the other party.

[OPTION MENU] Allows access to programmable or TELCO options and data configuration modes.

[REDIAL] Automatically repeats the last dialing sequence entered.

[PRGM] Enters and exits the program menu allowing access to FILL procedures.

[RESET] Disconnects, then reconnects the phone line when off-hook.

[PAUSE] Enters a user defined time delay into any dialing sequence.

[HOOKFLASH] Sends a precisely timed flash signal to the telephone network. Usually used to access special telephone PBX functions.

[VOL Δ] [VOL ∇] Adjusts volume of ringer when on-hook, or adjusts volume of handset earpiece and speakerphone when off-hook.

[SPKR] Turns the speakerphone on or off during a clear call, a 4800 bps secure call and a 9600 bps secure call.

[MODEM] Toggles between modem rates (2400, 4800 or 9600 bps) to be used for secure calls.

FILL PROCEDURES

Type 2 FILL

1. Obtain a Type 2 FILL Key from the Communication Security Custodian.
2. Insert the FILL Key and turn one-quarter turn clockwise.
3. Press **[PRGM] [SCROLL] [#]** to select the Type 2 FILL menu.
4. Press **[#] [#]** to read the FILL Key.
5. Press **[*]** twenty (20) times.
6. Press **[SCROLL]** several times to view the Type 2 FILL key ID.
7. Press **[*]** to confirm FILL.
8. Insert a KSD and turn one-quarter turn clockwise.
9. Press **[#] [*] [*]** to convert the blank KSD to the Master CIK.
10. Press **[SCROLL]** to exit or **[#]** to create additional CIKs.

Type 3/Public Key Mode FILL

1. Obtain a SAK from the Key Certification Authority.
2. Insert the SAK and turn one-quarter turn clockwise.
3. Press **[PRGM] [SCROLL] [SCROLL] [#]** to select the Type 3 FILL menu.
4. Press **[#]** to enter certification mode.
5. Use the keypad buttons and **[#]** to enter password.
6. Wait for the prompt to dial the KCA (use **[REDIAL]** for available default number).
7. Dial the KCA to certify the SAK.

Type 3/Custom Mode FILL Using a Type 3 FILL Key

1. Obtain a Type 3 FILL Key from local security personnel.
2. Insert the Master TAK and turn one-quarter turn clockwise.
3. Press **[PRGM] [SCROLL] [SCROLL] [#]** to select Type 3 FILL menu.
4. Press **[SCROLL] [#] [SCROLL] [#]** to read a Type 3 FILL Key.
5. Insert the Type 3 FILL Key and turn one-quarter turn clockwise.
6. Press **[#]** to read the Type 3 FILL Key.
7. Press **[PRGM]** to exit.

Type 3/Custom Mode Master TAK Creation

1. Insert a blank KSD and turn one-quarter turn clockwise.
2. Press **[PRGM] [SCROLL] [SCROLL] [#]** to select Type 3 programming menu.
3. Press **[SCROLL] [#] [SCROLL] [SCROLL] [SCROLL] [#]** to add TAKs.
4. Press **[#] [*] [*]** to erase the KSD and convert it to a Master TAK.
5. Press **[#]** to exit or **[*]** to create additional TAKs.

ZEROIZING SECTEL 2500

1. Lift cap on zeroize **ZERO** button.
2. Press the **ZERO** button. The white portion of the button becomes visible.

SECURE VOICE/DATA CALL

Initiating

1. Call the other party.
2. Confirm with other party that call will be going secure.
3. Determine which encryption mode is to be used.
4. Insert a CIK for Type 2 encryption; TAK or SAK for Type 3 encryption and turn one-quarter turn clockwise.
5. Use **[VOICE/DATA]** to select voice or data mode of communication.
6. Use **[MODEM]** to select the modem rate.
7. Press **[SECURE]**.

NOTE

The SECTEL 2500 requires approximately 15 seconds to enter the secure mode.

8. If operating in Type 3 Custom Mode (using a TAK), the user must select the memory dial button to use as the Custom Variable with which to go secure.

Terminating

1. Hang-up handset or press **[RESET]**.
2. To terminate the secure call, and return to a clear call press **[CLEAR]**.