

# STU II/B SECTEL®

## QUICK REFERENCE GUIDE

**CONSULT WITH LOCAL SECURITY AUTHORITY FOR SECURITY PROCEDURES APPLICABLE TO THE CONTROL AND USE OF THE STU II/B SECTEL.**

The STU II/B SECTEL (Figures 1 and 2) secure telephone is interoperable with existing STU II equipment. Figures 1 and 2 show the buttons and indicators explained in this quick reference guide.

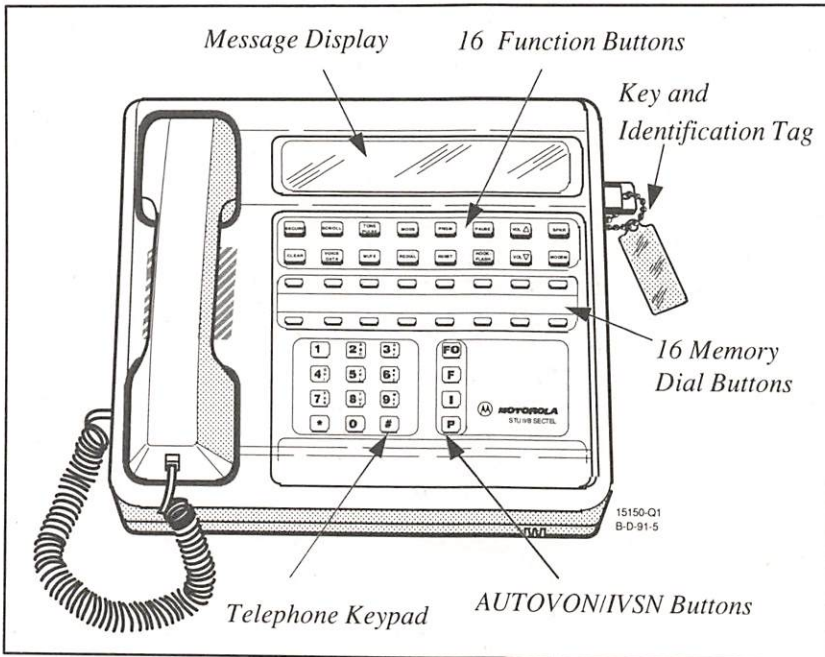


Figure 1. STU II/B SECTEL Top View

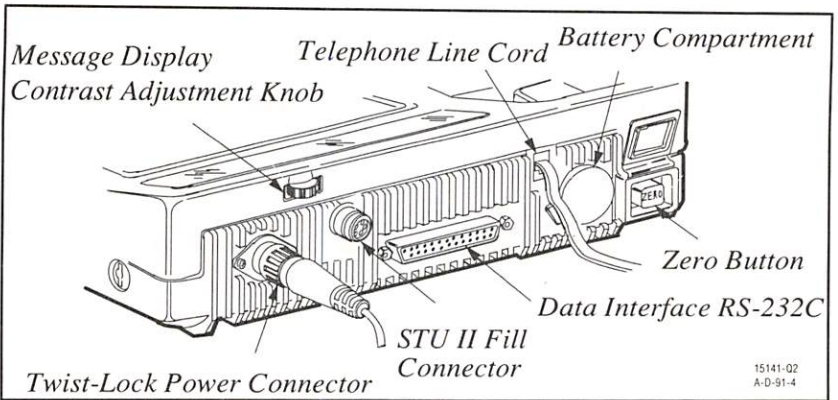


Figure 2. STU II/B SECTEL Back View

**KEYPAD** – A standard telephone keypad.

**AUTOVON/IVSN BUTTONS** – The four AUTOVON/IVSN buttons provide the user with precedence capability. They operate as follows:

- FO** Sends a Flash Override signal (highest priority) to the AUTOVON or IVSN network.
- F** Sends a Flash signal (second priority) to the AUTOVON or IVSN network.
- I** Sends an Immediate signal (third priority) to the AUTOVON or IVSN network.
- P** Sends a Priority signal (lowest priority) to the AUTOVON or IVSN network.

**MEMORY DIAL BUTTONS** – Two rows of eight memory dial buttons used for speed dialing and abbreviated dialing storage (ADS).

## FUNCTION BUTTONS

The following list describes the function buttons.

- SECURE** Places the terminal in secure mode if a valid CIK is inserted.
- CLEAR** Places the terminal in clear mode; enables clear mode calls during a loss of power.
- SCROLL** Advances Message Display text to present additional information. In program mode, press **SCROLL** to view next step.

## FUNCTION BUTTONS (cont).

<b>VOICE DATA</b>	Alternates between voice and secure data communication modes. If set for 4800 bps secure operation, selects between voice mode, simultaneous voice/data mode, and data mode.
<b>TO NE PULSE</b>	Alternates between tone or pulse dialing.
<b>MUTE</b>	Disables handset microphone to prevent other party from overhearing the conversation.
<b>MODE</b>	Used to select one of three operational modes: KDC, Net or Multipoint.
<b>REDIAL</b>	Automatically repeats last dialing sequence entered.
<b>PRGM</b>	Enters and exits program mode.
<b>RESET</b>	Used to release and recapture phone line with handset off-hook and for certain memory dial button functions.
<b>PAUSE</b>	Used to enter a time delay (1 to 9 seconds) into any dialing sequence.
<b>HOOK FLASH</b>	Used to send a signal to access special telephone network functions.
<b>VOL Δ</b>	Increases either ringer volume when handset is on-hook, or handset earpiece and speaker volume when handset is off-hook.
<b>VOL ▽</b>	Decreases either ringer volume when handset is on-hook, or handset earpiece and speaker volume when handset is off-hook.
<b>SPKR</b>	Alternately turns terminal speakerphone on and off when operating in the clear voice mode or 9600 bps and 4800 bps secure voice mode.
<b>MODEM</b>	Allows user to select modem bit rate of either 2400 bps half-duplex, 2400 bps full-duplex, 4800 bps or 9600 bps.

# MESSAGE DISPLAY

The message display (Figure 3) shows keypad entries, messages, and prompts used to operate the terminal.



Figure 3. Message Display

The display consists of two rows of 16 characters each, located between the 13 annunciators.

The following annunciators (small messages on each side of the alphanumeric portion) constantly indicate the current terminal operating mode and dialing parameters.

- SECURE** Indicates terminal is operating in secure mode.
- CLEAR** Indicates terminal is set for clear mode operation.
- MUTE** Indicates handset microphone is disabled.
- VOICE** Indicates terminal is set for voice mode operation.
- DATA** Indicates terminal is set for data mode operation (only used in secure mode).
- PHONE** Indicates terminal will send tone dialing signals when the user enters phone numbers.
- PULSE** Indicates terminal will send pulse dialing signals when the user enters phone numbers.
- PRGM** Indicates terminal is operating in program mode.
- HD** Indicates terminal is set to operate half duplex in the secure mode. In secure mode, the person speaking has a T (transmit) on the message display, while the listener's shows an R (receive). If message display does not show T or R, the line is idle and either party may begin speaking.
- SPEAKER** Indicates terminal is operating in speaker phone mode.
- 2.4** Indicates terminal operates at 2400 bps in the secure mode.
- 4.8** Indicates terminal operates at 4800 bps in the secure mode.
- 9.6** Indicates terminal operates at 9600 bps in the secure mode.



## SETTING LOCAL INFORMATION

1. Make sure handset is on-hook.
2. Press **PRGM**. The PRGM annunciator will come on.
3. Press **5**.
4. Press **#**.
5. Press **#**.
6. Enter the five-digit Local ID of the STU II/B SECTEL.
7. Press **SCROLL** to save the entered ID.
8. Press **#**.
9. Enter the KDC phone number.
10. Press **SCROLL** to save the phone number.
11. Press **PRGM** to exit program mode.

## PLACING CLEAR CALLS

1. Lift handset or press **SPKR**. Listen for dial tone.

### NOTE

Press **CLEAR** to hear dial tone in KDC mode.

2. Be sure MUTE annunciator is off. If not, the clear mode muted option has been set.
3. Dial phone number.
4. Speak into handset or speakerphone.
5. To end call, place handset on-hook or press **SPKR**.

## PROGRAMMING MEMORY DIAL LOCATIONS

1. Make sure handset is on-hook.
2. Press memory dial button to be programmed.
3. Press **#** to program the information.
4. Enter phone number, press **MXX** to store and exit or, enter phone number, press **SCROLL**, enter far end five-digit ID, and two-digit Net number, press **MXX** to store numbers and return to idle mode.
5. Press **PRGM** at any time to return to idle mode.
5. When programming is complete press memory dial button to save.

## SPEED DIALING

1. Lift handset and listen for dial tone.
2. Press a memory dial button.
3. If number displayed is incorrect, press **RESET** or place handset on-hook.

## PLACING SECURE CALLS

### KDC Mode – Self Call

Each time the terminal is filled with Unique fill, the user must complete the following six steps before placing a STU II KDC Mode call.

1. Press **MODE** to enter KDC mode.
2. Insert CIK. Turn it one-quarter turn clockwise.
3. Lift handset.
4. Enter local five-digit ID.
5. Call KDC
6. When call completed, hang up.

### KDC Mode

1. Press **MODE** to enter KDC mode.
2. Insert CIK. Turn it one-quarter turn clockwise.
3. Be sure HD annunciator is on for half-duplex calls; off for full-duplex calls.
4. Lift handset.
5. Enter five-digit ID or press memory dial key for the far end equipment to be called.
6. Call KDC if prompted by terminal, or proceed to next step.
7. Place clear call to other party.
8. Tell the other party you want to have a secure conversation.

### NOTE

Only the user that placed the call should press

**SECURE**.

9. Press **SECURE**. The terminal takes 5-10 seconds to enter secure mode. During this time, both handsets are disabled. SECURE annunciator comes on when terminal enters secure mode.
10. Speak into handset.
11. To end call, place handset on-hook.

### Net Mode

1. Press **MODE** to enter Net mode.
2. Insert CIK. Turn it one-quarter turn clockwise.
3. Be sure HD annunciator is on for half duplex calls; off for full-duplex call.
4. Lift handset.
5. Place clear call to other party.
6. Tell other party you want to have a secure conversation.
7. Ensure far end user has the same net selected.

## Net Mode (cont.)

### NOTE

Only user that places the call should press

**SECURE**.

8. Press **SECURE**.

The terminal takes 5-10 seconds to enter secure mode. During this time, both handsets are disabled. The *SECURE* annunciator comes on when the terminal enters secure mode.

9. Speak into handset.
10. To end call, place handset on-hook.

## Multipoint Mode

1. Press **MODE** to enter Multipoint mode.
2. Insert CIK. Turn it one-quarter turn clockwise.
3. Be sure VOICE annunciator is on for a voice call; or DATA annunciator is on for a data call. Press **VOICE/DATA** to change.
4. Place clear call to other party.
5. Tell other party you want a secure conversation.
6. Press **SECURE**. The *SECURE* annunciator comes on when terminal enters secure mode.

### NOTE

Both users must press **SECURE** in Multipoint mode.

7. Speak into handset.

### NOTE

Secure Multipoint Mode functions in half duplex only.

8. To end call, place handset on-hook.

## UPDATING NET VARIABLE

### Quick Net Update (Off-hook)

1. Press **PRGM**. The PRGM annunciator will come on.
2. Press **SCROLL** twice.
3. Press **#** to select Net Update mode.
4. Press **SCROLL** to select Net.
5. Press **#** to update the selected Net.
6. Press **PRGM**. The terminal returns to the off-hook clear state.

### NET SELECTION (Off-hook)

1. Press **PRGM**. The PRGM annunciator will come on.
2. Press **SCROLL**.
3. Press **#** to select Net Select mode.
4. Press **SCROLL** or digit buttons to select Nets 01-17.
5. Press **PRGM**. The terminal returns to the off-hook clear state.

### DATA RATE SELECTION (Off-hook)

1. Press **PRGM**. The PRGM annunciator will come on.
2. Press **SCROLL** 3 times.
3. Press **#** to select Data Port setup mode.
4. Press **SCROLL** until the correct data rate is displayed.
5. Press **PRGM**. The terminals return to the off-hook clear state.