

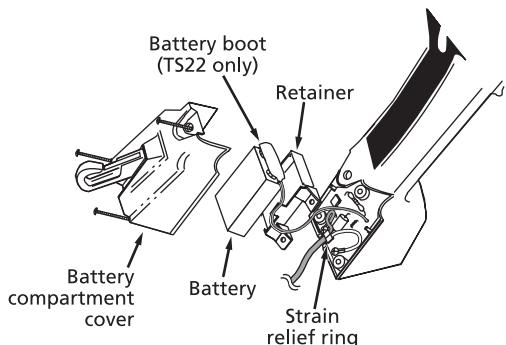
Replacing the Monitor Speaker Battery

A 9 V alkaline battery powers the Amplified Speaker or Speakerphone. If the battery is low, the test set will not enable the TALK (off-hook) mode. Replace the battery if the test set does any of the following:

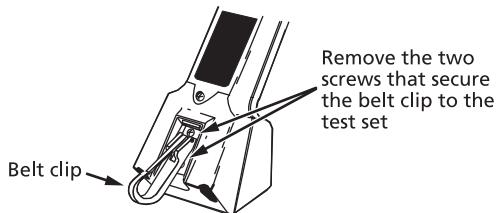
- Fails to operate
- Operates intermittently
- Sounds distorted

To replace the battery

- 1 Remove the three screws from the battery cover.
- 2 Remove the battery cover.
- 3 Lift out the battery retainer.
- 4 Remove the battery from the battery boot and install a new alkaline or lithium 9 V battery.
- 5 Replace the battery boot, retainer, cover, and screws. Strain relief ring must be inside the case as shown. Avoid pinching the battery wires.

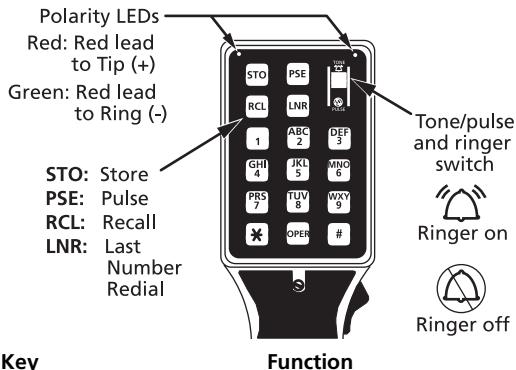
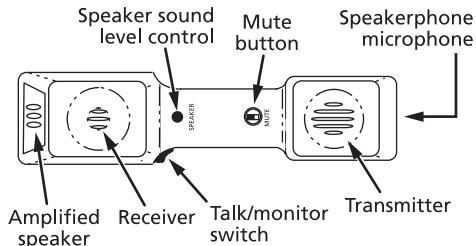


Replacing the Belt Clip



Remove the two screws that secure the belt clip to the test set

TS[®]22/TS[®]22A Test Set Users Card



STO Stores the last number dialed in memory. (18 digits maximum; 9 locations).

PSE Places a 4-second pause between numbers being entered into memory. The pause occurs when the stored numbers are redialed, and is used to access second dial tone when dialing through a PBX.

RCL Recalls a number stored in memory.

LNR Redials the last number called. This feature works in Tone or Pulse modes.

Basic Operation

- 1 Select the dial signaling required (touch tone or pulse) with the **TONE/PULSE** switch.
- 2 Set the TALK/MONITOR switch to **M** and connect the test set to the line. Listen to verify the line is idle. The test set's high impedance prevents disruption of data traffic when connected to a line in monitor mode.
- 3 Set the TALK/MONITOR switch to **T**, and verify that dial tone is received.
- 4 Dial the number to be called. To terminate the call during or after dialing, set the TALK/MONITOR switch to **M**.

Last Number Redialed

In Tone or Pulse mode, the last number dialed can be redialed by pressing the **LNR** key after going on-hook (MONITOR) and then back off-hook (TALK).

*Note: When dialing out through a PBX, you may use the **PSE** key to insert a pause before initially dialing the number.*

Storing Numbers In Memory (Auto Dialer)

- 1 Press **STO** (STORE).
- 2 Press the number for the desired memory location (1-9).
- 3 Enter the number to be stored (18 numbers maximum).

*Note: If a pause is needed (as for a PBX), press the **PSE** key where a pause is necessary.*

- 4 Press **STO** (STORE).
- 5 Press the number for the desired memory location (1-9).

Storing a Number You Are Calling

- 1 Connect the test set to the line and receive dial tone.
- 2 Dial the number.
- 3 Press **STO** (STORE).
- 4 Press the number for the desired memory location (1-9).

*Note: In Pulse mode, pressing **STO** (STORE) stops any further digits from being outpulsed, although all digits will be stored. Therefore, wait until all digits have been outpulsed before pressing **STO**.*

TS22 Amplified Speaker Mode

- 1 Connect the test set to the line, put the test set in TALK (**T**) mode, and receive dial tone.
- 2 Press the **SPEAKER** button once for Amplified Speaker mode at low volume. The transmitter and receiver automatically turn off when the speaker is on to prevent acoustic feedback.
- 3 Press the **SPEAKER** button a second and third time for medium and high volumes.
- 4 Press the **SPEAKER** button a fourth time to turn the speaker off and return to TALK mode.

*Note: When the speaker is on, the polarity LEDs are off. They turn back on when the speaker timer elapses or is turned off with the **SPEAKER** button.*

TS22A Speakerphone Mode

- 1 Connect the test set to the line, put the test set in TALK (**T**) mode, and receive dial tone.
- 2 Press the **SPEAKER** button once for Speakerphone mode at low volume.
- 3 Press the **SPEAKER** button a second and third time for medium and high volumes.
- 4 Press the **SPEAKER** button a fourth time to turn the speakerphone off and return to TALK mode.

*Notes: (1) Pressing the **MUTE** button while in Speakerphone mode mutes the transmit microphone for privacy. (2) When using Speakerphone mode in noisy environments, it may be helpful to temporarily lock the **MUTE** button while listening; then unlock it to talk.*

To prolong battery life, the TS22A shuts off the speakerphone after about 5 minutes when there has been no signal greater than -30 dBm. Speakerphone mode must be reactivated every 5 minutes if no signal greater than -30 dBm is detected.