

Operating Instructions

This document outlines the operation of the ATS Series of CraftTest Sets (Butt Set).

The new ATS-98 Telephone Test Set is a data safe butt set for the telephone and computer network installer that doesn't break the budget. Feature rich without sacrificing quality, the new ATS-98 includes tone & pulse dialing, speed dial (9 storage spaces, each 18 digits long), last number re-dial, polarity indicator, mute button, audible ringer, data safe in monitor mode, and a flash-hook button. The set supports either loop or ground start operation without the need for a special cord! The ATS-98 is equipped with a high quality cord with both mini-clips AND an patented K-Plug! The cord is manufactured from tinsel conductors insulated with PVC and nylon braided from materials which meet MIL SPEC C-83501. These cords meet both Bellcore and AT&T specifications.

Features:

- DTMF/pulse dialing
- Polarity Indicators
- Data safety in MONITOR Mode
- 10 Number Storage
- Speed Dial
- Last Number Redial
- FLASH HOOK Button
- MUTE Button
- Audible ringer with AUTO-RING sensing
- Loop Start and Ground Start without need for special cord
- Industry standard and approved cord with BOTH alligator clips and Patented K Plug
- High impact polyamyd plastic case with moisture seal
- RECOMP Receiver Amplifier (ATS-2000 Model*)
- HandsFree Headset Jack (ATS-2000 PLUS Model*)
- ACTIVE TALK (ATS-2000 & ATS-2000 PLUS Models*)
- Data safety in TALK mode on ATS-2000 PLUS only*
- *Available End 1998

Specifications:

The Telephone Test Set, ATS-98 meets or exceeds the following specifications:

DIALING:

Dual Tone Multi Frequency (DTMF)

Tone Level:	-2dBm nominal
Freq Deviation:	+/- 0.7% maximum
Twist:	<3dB

Pulse	
Pulse Rate:	100PPS
Make/Break:	40/60

Loop Length:	2000 ohms @ 48Vdc
Impedance:	
Monitor:	>100K ohms @ 1004hertz
Talk:	250 ohms typical

Keypad:	Moisture resistant 4x4 format with 10 digits, *, #, memory store, memory recall, pause and redial buttons.
---------	--

The ATS Series of butt sets also provides feature access on the set grip

VOL Receiver Amplifier volume control. Depress button ONCE for LOW gain, TWICE for HI gain and, once again to return to NORMAL.

MUTE Mutes (shuts off) transmitter

GND START Provides GROUND START (GS) function. To activate, place test leads on TIP and RING of circuit under test. Check POL light (LED) for correct polarity. Touch butt set belt clip to GROUND and depress GS button. Circuit will activate and dial tone will be heard in the receiver. Release GS button and remove belt clip from ground.

ON THE LEFT SIDE OF THE BUTT SET.

TALK Active or "OFF-HOOK" circuit condition

MON Monitor or "ON-HOOK" circuit condition

LEDs

Circuit condition indicators (Light Emitting Diodes) are provided to check polarity of the butt set connection and indicate the activation of the receiver amplifier. These LEDs are located on the hand grip above the VOL, MUTE and GS buttons.

REV (RED) Indicates the test leads are connected in reverse. Change before continuing tests.

NORM (GREEN) Indicates test leads are correctly connected for testing.

REC (YELLOW) Indicates Receiver Amplifier is activated. (ATS-2000 Series only)

FEATURES REQUIRING NO ACTIVATION:

ALL SETS:

RINGING All ATS Series butt sets are provided with a patented auto-ring detection circuit. This circuit is active whenever the butt set is in the TALK mode. It is only activated when RINGING is actually present on the line. It will automatically deactivate when ringing is stopped. This feature allows the butt set to stay at "Hi-impedance" unless ringing is present.

DATA All ATS Series butt sets are data circuit activation "safe" while the butt set is in the MONITOR (MON) mode. If the set is placed in the TALK mode, data circuit protection is NOT PROVIDED (except for the ATS-2000 PLUS)

ATS-2000 PLUS Data circuit activation safety in the TALK mode is provided on the ATS-2000 PLUS. Protection is provided as follows:

When a data circuit is encountered, a loud tone will be sounded in the receiver for five (5) seconds. This allows the technician to disconnect from the circuit. If circuit interruption is desired, simply stay on the circuit. Activation (interruption) will occur after 5 seconds.

CAUTION: If you DO NOT WISH TO "TRIP" THE CIRCUIT UNDER TEST, DISCONNECT WHEN TONE IS HEARD IMMEDIATELY! (YOU HAVE FIVE SECONDS TO DISCONNECT)

MAINTENANCE:

No field maintenance of the ATS Series is required except for battery replacement. The battery compartment is accessible by removing two screws, one below the DTMF pad and one under the belt clip. This also allows for field replacement of the butt set cords. The unit will retain it's stored number memory for approximately 30 seconds while the battery is removed. Low battery indication occurs when unit defaults to PULSE mode during periods of inactivity. Use alkaline batteries only for better performance.

Sperry Instruments
2150 Joshua's Path, suite 302
Hauppauge N.Y. 11788
(800) 645-5398 / (631) 231-7050
Fax (631) 434-3128 Email: info@sperryinstruments.com