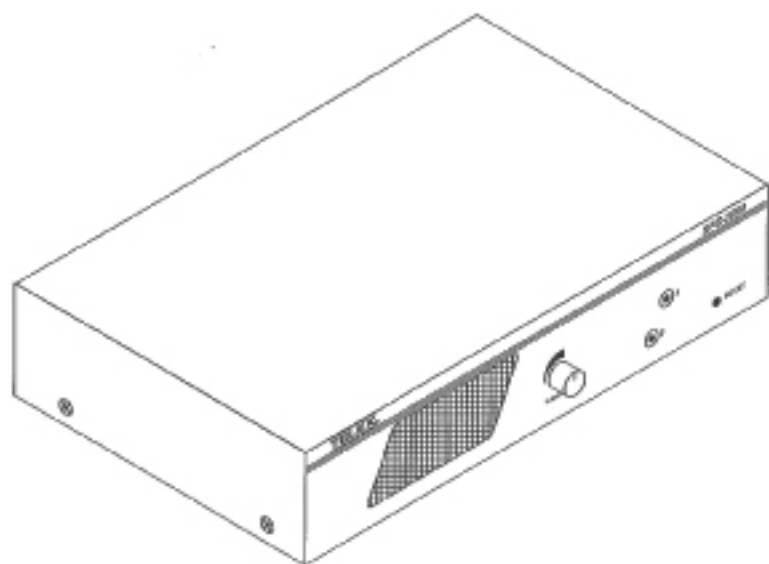


Telex

Operating Instructions



SPS-2000 Speaker and Power Supply Audiocom™ Intercom System

TELEX.

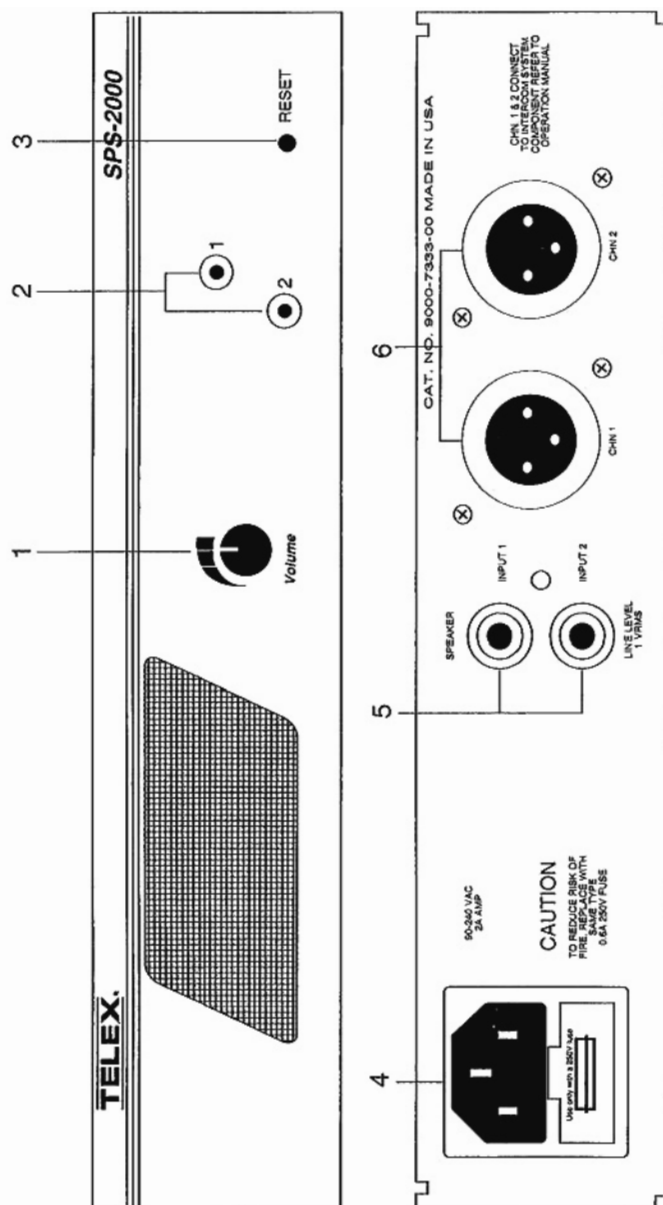


Figure 1. Front and Rear Panel Controls

GENERAL

The Audiocom SPS-2000 is a two-channel intercom power supply with speaker, that occupies only 1/2-rack space. This unit provides power to two channels for US-2000 User Stations and contains a two-input powered speaker. Internal switch and jumper settings allow the unit to be used with Clear-Com® components, if desired. Other internal switch and jumper settings allow the unit to be uniquely configured to the operator's requirements.

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OPERATION

EXTERNAL CONNECTIONS & CONTROLS

NOTE: The numbers refer to the callouts in Figure 1.

1. **Volume Control**

Use this control to simultaneously adjust the speaker level for both speaker input lines.

2. **Channel Power Status Indicators**

The indicators are green for normal operation and change to red if there is a short circuit or overload condition on a power output line. If an indicator turns red, either disconnect the corresponding channel connector or turn off the intercom system and locate the problem before resuming operation.

3. **Reset**

The power status indicators will remain red after sensing a problem, until power is removed from the SPS-2000 or reset is pressed. Press *Reset* after the problem has been resolved or the appropriate channel connector has been disconnected.

4. **AC Power Inlet**

Connects the unit to an AC line and holds the line fuse.

5. **SPEAKER** Input Jacks

These jacks can be connected to the **SPEAKER** outputs of a US-2000 or ES-4000 station. They may also be used to connect audio input from some other line-level program source (an auxiliary output from a radio or tape player for example).

6. **CHN 1** and **CHN 2** Intercom Channel Connectors

These connectors carry power to intercom user stations and provide channel termination for the audio signal.

INTERNAL SWITCHES AND JUMPERS

There are several internal switches and jumpers that affect operation. These are described below. To gain access to the switches and jumpers, remove one screw from the top cover and two screws on each side. Switch and jumper locations are shown in Figure 2.

Balanced/Unbalanced Switch (S200)

Set this switch to the balanced (BAL) position to use the US-2000 with Audiocom intercom channels. Set the switch to the unbalanced (UNBAL) position for use with a Clear-Com® intercom system. (The factory default setting is the balanced position for use with Audiocom.)

Jumpers

Table 1. Jumper Functions and Settings

JUMPER NUMBER	JUMPER FUNCTION	DEFAULT SETTING
W102, W202, W302, W402	Audiocom Termination Select* Pins 1&2 shorted: Audiocom line termination Pins 2&3 shorted: No Audiocom line termination	Pins 1&2 shorted
W101, W201, W301, W401	RTS Termination Select* Pins 1&2 shorted: RTS line termination Pins 2&3 shorted: No RTS line termination	Pins 2&3 shorted

- * Only one set of jumpers (either W102 through W402, or W101 through W401) should be in the "pins 2&3 shorted" position at any time.

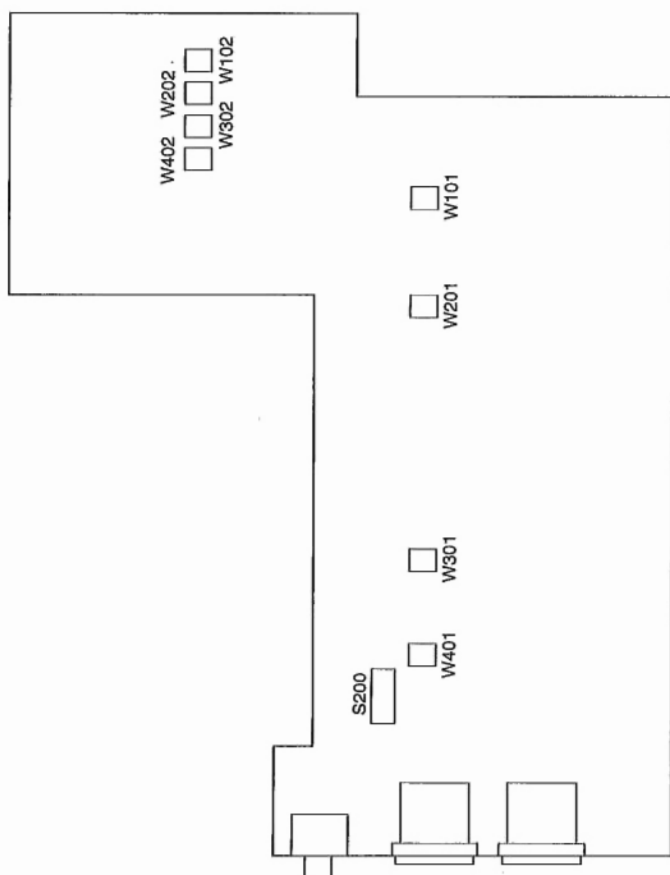


Figure 2. Internal Switches and Jumpers

CONNECTOR PIN CONFIGURATIONS

Speaker Inputs

Type: RCA Phone Jack

Tip: Speaker output high

Sleeve: Common

Intercom Channel Connectors

Type: XLR-3M

Audiocom Mode (Internal switch S200 set to BAL position)

Pin 1 Common

Pin 2 +24 VDC output and audio termination

Pin 3 +24 VDC output and audio termination

Clear-Com Mode (Internal switch S200 set to UNBAL position)

Pin 1 Common

Pin 2 +24 VDC output and audio termination

Pin 3 Audio termination

SPECIFICATIONS

GENERAL

Output Voltage:

24 \pm 1 VDC

Output Current:

2A at 21 \pm 1 VDC

Output Impedance:

150 Ω \pm 5%, unbalanced

300 Ω \pm 10%, balanced

Input Power Requirements:

92 to 255 VAC, 50 to 400 Hz

Environmental Requirements:

0°C to 50°C; 0% to 95% humidity, non-condensing

Dimensions:

1.75" (44.5 mm) H x 8.25" (209.5 mm) W x 10.25" (260.4 mm) D

Weight:

2.5 pounds (1.13 kg)

SPEAKER AMPLIFIER

Frequency Response:

100 Hz to 20 kHz \pm 1/-4 dB, at 0 dB output

Maximum Voltage Gain:

18 \pm 3/-2 dB

Speaker Impedance:

8 Ω nominal

Input Level:

1.0 Vrms

Output Amplifier Power:

4W maximum into 8 Ω

Output Voltage Level:

16 \pm 1 Vp-p, before clipping

FACTORY SERVICE

All equipment returned for repair must be accompanied by documentation stating your return address, telephone number and proof of date of purchase, along with a description of the problem. In lieu of this, you may obtain a Return Authorization form from our Customer Service Department.

Customer Service Department
Telex Communications, Inc.
9600 Aldrich Avenue South
Minneapolis, Minnesota 55420 U.S.A.
Telephone: (612) 884-4051
(Collect calls not accepted)

Return equipment to:

Service Department
Telex Communications, Inc.
101 Minnesota Avenue
LeSueur, Minnesota 56058 U.S.A.

Warranty Repairs - If in warranty, no charge will be made for the repairs. Equipment being returned for warranty repair must be sent prepaid and will be returned prepaid.

Non-Warranty Repairs - Equipment that is not under warranty must be sent prepaid to Telex. If requested, an estimate of repair costs will be issued prior to service. Once your approval for repair, and repair of equipment is completed, the equipment will be returned on a collect basis. Collect charges may be avoided by sending a signed check for payment in full along with your signed estimate approval form (the estimate includes the shipping charge).