

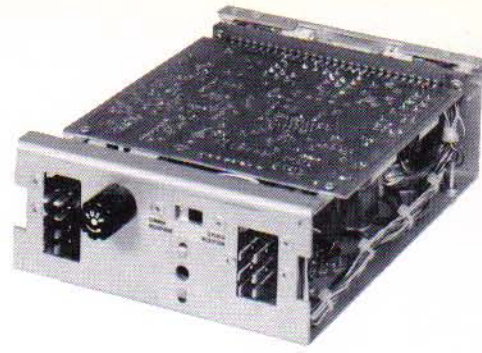
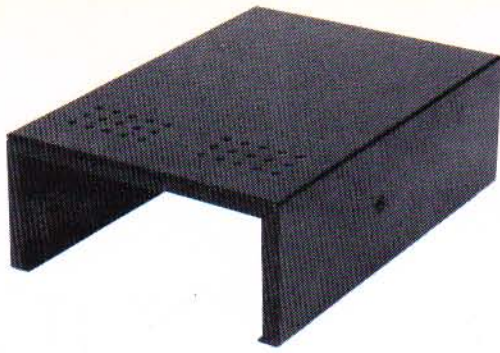
UNITY

MODEL SPR77-A



SI-TRON - ELECTRONIC SIREN/PUBLIC ADDRESS AMPLIFIER

- SINGLE COMPACT UNIT CONTAINS ALL CONTROLS AND AMPLIFIERS
- RUGGED ROTARY CONTROLS
- SOLID STATE DESIGN USING INTEGRATED CIRCUITRY
- DUAL RANGE FOR 58 WATT OR 100 WATT SPEAKERS
- UP TO 200 WATTS OUTPUT WITH PARALLELED 100 WATT SPEAKERS
- HIGHLY EFFICIENT TOROIDAL OUTPUT TRANSFORMER
- DUAL NON-GLARE PANEL LIGHTS
- STANDARD SIREN SOUNDS — WAIL, YELP, HI-LO
- "ALERT" OPTION PROVIDES FAST YELP AND FAST HI-LO FOR EXTREME EMERGENCIES
- SIREN REMOTE CONTROL
- CRISP, CLEAR, POWERFUL PUBLIC ADDRESS
- POLARITY PROTECTION AND ZENER VOLTAGE REGULATION
- PLUG-IN PRINTED CIRCUIT BOARD
- EASILY INSTALLED



The Si-Tron model SPR77-A combines an electronic siren and a public address amplifier into a single compact package containing all controls, preamplifiers and amplifiers.

The control panel is illuminated by two non-glare panel lights and contains all controls necessary for all modes of operation. A rugged rotary switch mounted in the center of the panel provides fast and accurate selection of the automatic siren sounds, radio rebroadcast, or public address. The manual position of the mode selector allows the siren to be activated by the SIREN pushbutton or remotely activated by an optional footswitch or the vehicle horn ring. A gain control adjusts the volume level of both public address and radio rebroadcast functions.

The SPR77-A may be used in conjunction with a two-way radio and utilize the radio microphone to provide crisp, clear voice amplification in the public address mode. In this type of installation, the microphone keys the radio in all modes except PA, where it controls the public address function. If desired, separate microphones for the two-way radio and the amplifier may be used. In this type of installation a slide switch on the rear panel may be set to allow the microphone

to override all siren functions. Radio rebroadcast, however, may not be overridden by PA.

Si-Tron Alert option No. 1-72 may be added to the model SPR77-A electronic siren to provide the most effective audible warning package available today. Upon momentary activation of the siren pushbutton, optional footswitch or horn ring, the WAIL sound automatically changes to YELP, HI-LO automatically changes to FAST HI-LO, and YELP changes to FAST YELP. This enables the vehicle operator to change to a more urgent signal without taking his hands off the wheel when approaching dangerous intersections or in chase situations.

A highly efficient toroidal output transformer with a selectable power tap provides compatibility with either standard 58 watt speakers or high powered 100 watt speakers.

The SPR77-A is designed to power any one of 4 different speaker combinations:

- (1) A single 11 ohm 58 watt, (2) a single 11 ohm 100 watt,
- (3) two paralleled 11 ohm 58 watt, and (4) for the highest power, two paralleled 11 ohm 100 watt speakers, that will provide approximately 200 watts output.



The SPR77-A is supplied complete with a "swinging action" mounting bracket, an installation hardware kit, a power cable, a two-way radio audio tap cable, a horn ring control toggle switch, and a comprehensive instruction manual. For information on speakers, microphones and other accessories request Si-Tron bulletin 703.

SPECIFICATIONS

GENERAL

Dimensions.....5-5/8"W x 3"H x 8-5/8"D
 Net Weight.....4 pounds
 Shipping Weight.....6-3/4 pounds
 Operating Voltage.....9 to 16 volts D.C.
 Operating Current.....0.5 to 16 amperes
 Operating Temperature.....-30°F to +140°F

SIREN

Frequency and Rate:
 WAIL.....500 to 1500 Hz, 12 cycles/minute
 YELP.....500 to 1500 Hz, 180 cycles/minute
 HI-LO.....400 and 800 Hz, 45 cycles/minute
 FAST YELP*.....500 to 1400 Hz, 240 cycles/minute
 FAST HI-LO*.....400 and 800 Hz, 180 cycles/minute
 Output Voltage (@14VDC in, 5-1/2 to 11 ohm load):
 Low Power.....52 to 55 Volts ppk. squarewave
 High Power.....62 to 65 Volts ppk. squarewave

PA/RADIO

Frequency Response (volume control @ maximum):
 300 Hz to 10,000 Hz, ±3dB
 Distortion: Total Harmonic Distribution (THD) is less than 8%,
 300 Hz to 10 kHz, from 1/2 watt to full rated power.
 Input Impedance:
 Radio.....500 ohms
 Carbon Microphone.....3,000 ohms
 Magnetic Microphone.....10,000 ohms
 Input Sensitivity (for 65 Vppk. sinewave output):
 Radio.....600 mv RMS (typ.)
 Carbon Microphone.....600 mv RMS (typ.)
 Magnetic Microphone.....25 mv RMS (typ.)
 Output Voltage (@14VDC in, 5-1/2 to 11 ohm load):
 Low Power.....52 to 55 Volts ppk. sinewave
 High Power.....62 to 65 Volts ppk. sinewave

*Applicable only to sirens with alert kit No. 1-72 installed.