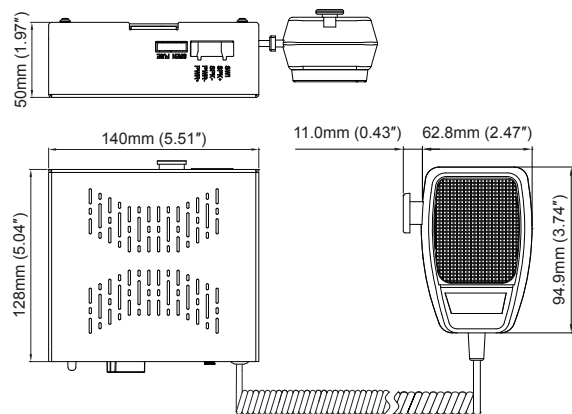


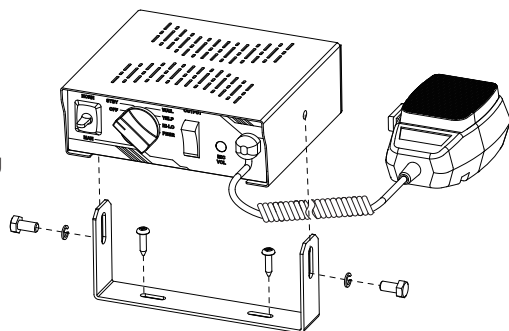
INSTALLATION



Mounting

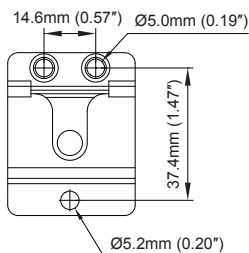
• U-bracket

1. Select a location where is convenient to the operator; avoid any interference of air bag deployment.
2. Position the U-bracket in the selected mounting location.
3. Mark and drill two mounting holes for sheet metal screws.
4. Secure the U-bracket to the vehicle, and the siren to the U-bracket.



• Microphone Clip

1. Select a location where is convenient to the operator; avoid any interference of air bag deployment.
2. Using the mounting clip as a template, mark the three holes to be drilled.
3. Drill three mounting holes for sheet metal screws.
4. Install the microphone clip with provided sheet metal screws.



SDB101S

Siren Amplifier

Installation & Operation Manual



NOTICE TO INSTALLER

Before installation and operation — read all instructions and warnings.
Deliver this manual to the end user of this product.

WARNING

1. Proper installation of the product requires the installer to have a good understanding of automotive electronics, systems and procedures. It is essential to install the unit properly to ensure safe and reliable operation.
2. Please read through all instructions thoroughly and carefully before installing the unit.
3. Failure to follow these instructions could result in serious damage to the unit or vehicle and may void warranties.
4. The correct mounting and wiring is the key to the effectiveness of SDB101S.
5. Installers must read and follow instructions and warnings in the manual from the original manufacturer.
6. The operator should verify the siren system is fastened to the vehicle securely and is functioning properly. Failure to follow all safety precautions and instructions may cause property damage, injury, or death.
7. Ensure that any switch control panel is located in an area that allows both the vehicle and the control panel to be operated safely in any driving condition.

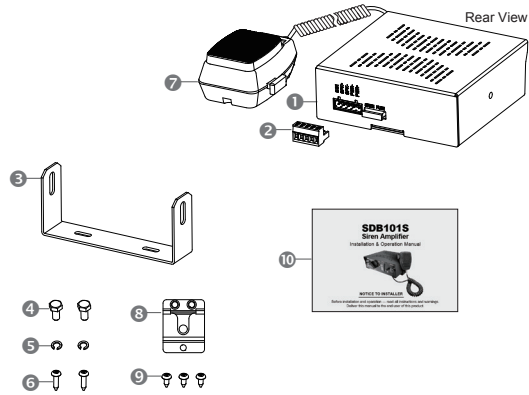
WARNING



SOUND HAZARD - Sound level from a siren speaker (109dB at 2M) may cause hearing damage. Do not operate the siren without adequate hearing protection for you and anyone in immediate vicinity.
(Ref. OSHA 1910.95 for occupational noise exposure guidelines)

CONTENTS

❶ Siren amplifier	x 1 pc
❷ Terminal block	x 1 pc
❸ U bracket	x 1 pc
❹ Mounting bolts ($\phi 1/4" \times 1/2"$)	x 2 pcs
❺ Spring washers	x 2 pcs
❻ Sheet metal screws ($\phi 4 \times 16\text{mm}$)	x 2 pcs
❼ Microphone	x 1 pc
❽ Microphone clip	x 1 pc
❾ Sheet metal screws ($\phi 4 \times 10\text{mm}$)	x 3 pcs
❿ Manual	x 1 pc



SPECIFICATIONS

Input Voltage: 12~24VDC

Siren Output Power: 100 Watts

Siren Output Load: 100W-ACR 11 Ω

Siren Frequency: 759Hz - 1592Hz

Max. Current: 10A @ 12VDC / 5A @ 24VDC

Standby Current: 0 mA (w/o IGN wire) / <0.35 A (w/ IGN wire)

Operating Temperature Range: -30°C~65°C

Light Controls: 1x 0.2A light control outputs.

Fuse Ratings: Built-in 15A fuse for the amplifier

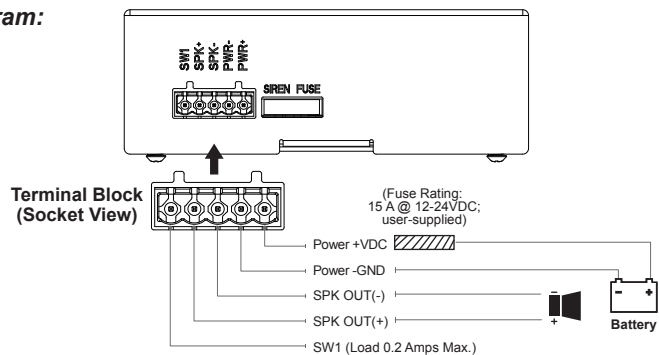
Dimensions(amplifier): 128mm x 140mm x 50mm

Dimensions(microphone): 62.8mm x 94.9mm x 49.5mm

TONES	CYCLE RATES
HORN	Composite (Constant)
WAIL	12CPM
YELP	160CPM
PHASER	850CPM
HI/LO	40CPM

WIRING

Wiring Diagram:



Terminal Block

• Power +VDC & -GND

1. Connect to the positive (+) battery terminal. Fuse the wire independently @15 Amps (user-supplied). DO NOT install these fuses until the wiring for the entire system has been completed.
2. Connect to the vehicle's chassis ground (typically adjacent to the battery).

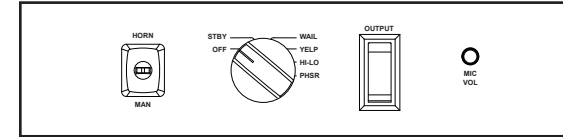
• Speaker Out

Connect the SPK+ and SPK- wires to one 100W 11-ohm impedance speaker.

• SW1 Output

Connect to auxiliary device power up to 0.2 Amps max. or use as Lightbar function activation switch.

OPERATION



Rotary Knob

The 6-position Rotary Knob controls four classic Siren Tones and Standby functions. It also acts as Main Power for the unit.

• OFF

It turns off the amplifier and microphone when the knob is in the OFF position.

• STBY

It is a Standby mode with lighted panel that allows HORN, MAN, Light Control Switch and PA Broadcasting.

• WAIL

It provides a steady, rise and fall tone (Wail) when the knob is in the WAIL position.

• YELP

It provides a fast rise and fall tone (Yelp) when the knob is in the YELP position.

• HI-LO

It provides an alternating high and low tone (Hi/Low) when the knob is in the HI-LO position.

• PHSR

It provides an extremely fast rise and fall tone (Phaser) when the knob is in the PHSR position.



HORN/MAN Lever Switch (Momentary)

The 2-position momentary lever switch is used to change in between HORN & MAN function.

• HORN

It provides a simulated air-horn tone when pressed, and overrides all siren tones except PA Broadcasting.

Once the switch is released, the overridden Siren Tone (if applicable) resumes immediately.

• MAN

It provides a rise and fall tone (Wail) when pressed, and overrides all siren tones except PA Broadcasting.

Once the switch is released, the Wail tone will start fading out. Then the overridden Siren Tone (if applicable) will restart cycling.



Light Control Switch (ON/OFF)

The ON/OFF switch is used to activate SW1 Output which powers up to 0.2 Amps max.



MIC Volume Knob

The microphone (PA Broadcasting) volume is adjustable. Turn the MIC Volume Knob clockwise/anti-clockwise to increase/decrease the volume.