



THE SA-430M PATRIOT MECHANICAL

from

CARSON
SIRENS

“The Remote Siren with the SIZEABLE Sound”

The **SA-430M PATRIOT MECHANICAL** remote siren is small in stature, but big in traffic clearing power! This truly unique siren offers the versatility of a compact, easy-to-install, flush mount control head with the strength of the new Carson replica Stutter Air Horn and dedicated Mechanical siren tone.

Designed to address the space constraints of today's emergency vehicles, the **SA-430M PATRIOT MECHANICAL** control head is just 1" in depth offering minimal intrusion into factory or custom made dashes or consoles. Combine this practical design with the distinctive "Big Engine" sound of the Mechanical tone and Carson replica Stutter air horn and you can truly Run Small and Sound Big!

- **Mechanical Tone:** This siren's deep and gutsy Mechanical tone allows you to sound just like a fire truck when clearing traffic. This siren will set you apart from the rest.
- **Carson Air Horn:** This replica Stutter air horn tone provides that distinctive "Big Engine" horn sound without the need for bulky air tanks and compressors.
- **Face Adjustable PA Volume Control:** When using the noise-cancelling microphone, the face mounted rotational volume control with adjustable knob provide control over the PA output levels to adjust to different broadcast environments and operator voice level.
- **DIP Switch Programmable:** Flexible DIP Switch programming allows the installer to sample different settings before selecting desired functions. Options include replacing Phaser with Two-Tone/HiLo, Manual Mechanical, Manual Wail or Horn Ring Cycler 2 operation through the auxiliary input or Siren button.
- **1" Deep Control Head:** The less intrusive the flush mount control head can be, the more versatile it is to mount because the clearance space needed behind the control head is reduced. This is the only mono tone flush mount siren that is 1" or less in depth.
- **Serial Control Data Line:** A single data line delivers information between the control head and the amplifier. The small #22 AWG wire makes installation easier.
- **Siren Cutout Input:** Also referred to as a Park Kill, the Cutout Input connects to an external switch like the door switch and turns off any siren tone being produced when activated.

Run Small and Sound Big with the **SA-430M PATRIOT MECHANICAL**

SA-430M PATRIOT MECH



Specifications

Siren	
Input Voltage	11 - 16 VDC (negative ground)
Input Current	8 Amps or 16 Amps @ 14 VDC
Standby Current	Less than 250 ma
Audio Frequency	200Hz - 10kHz +/- 3db
Audio Distortion	Less than 3% (@ 1kHz - single 100W speaker)
Audio Output	40W (@ 14 VDC per 100W speaker)
Radio Input	0.75V RMS Min., 400 ohms nominal
Output Power	105W RMS Max (@ 15 VDC - single 100W speaker) 180W RMS Max (@ 15 VDC - dual 100W speakers)
Siren Frequency	700Hz - 1500Hz (Mechanical 700Hz - 1600Hz) Two-Tone = 435Hz & 585Hz
Tones/Cycle Rates	Mech = 6 CPM, Wail = 13 CPM, Yelp = 190 CPM, Phaser = 15 CPS, Two-Tone = 60 CPM
High Voltage Protection	16 - 18 VDC output ceases, resumes at normal level
Short Circuit Current	50 Amps Min. from supply circuit
Operation Temperature	-15F to 140F
Controls	Control: 6 Position rotary, push button for Manual and Horn, noise canceling microphone, PA volume control, auxiliary input for +/- Horn, Manual or HRC2 operation, Amplifier: Radio volume adjust, cutout input for +/- latching cutout operation and 8 position DIP switch option selector
Siren Connections	Control: 5 Pin connector with 22 AWG leads: positive, negative, control output, backlighting input, and auxiliary input for +/- Horn, Manual or HRC2 operation Amplifier: 10 Pin connector: 2 positive, 2 negative, 2 speaker, 2 radio, control input, and cutout
General Size	Control: 6 1/4" Wide, 2 7/8" High, 1" Deep Amplifier: 8" Wide, 2 1/8" High, 6 3/4" Deep
Shipping Weight	5 1/2 Lbs
Ratings Met	Class A Sound Level, KKK

Features

- 100/200 watt amplifier
- Single 22 AWG serial control data line connecting the control head and the amplifier
- Six position rotary switch for tone selection with positions for Radio, Standby, Mechanical, Wail, Yelp, and Phaser
- Carson Air Horn with replica Stutter sound
- Momentary push button for air horn and Manual siren control
- PA override with noise-canceling microphone and a dedicated volume control on the face of the unit
- LED backlit for nighttime visibility
- Siren Cutout disables the siren tone when exiting the vehicle
- Horn Ring Cyclor 2 (HRC2) for hands free siren control for pursuit and rescue situations
- Externally fused to protect the siren
- Flexible DIP switch programmable options
- Detachable plug connector with screwdown terminals for the siren
- No-hassle 5-year limited warranty

	SA-430M PATRIOT MECH	Federal Signal PA4000	Whelen 295HFS2	Whelen 295HFSA7	Signal Vehicle Products (SVP) SS730
Single Line Control Head to Amplifier Connection	Yes	Yes			Yes
Control Head Depth of 1" or Less	Yes				
Flexible DIP Switch Programmability	Yes				
Mechanical Tone	Yes			Yes	
Carson Air Horn	Yes				
Cutout/Park Kill Optional Feature	Yes	Yes			Yes
5-Year Warranty	Yes		Yes	Yes	

WARNING  **Sound Hazard** - Sound level from siren speaker (>120dBA @ 10 feet) may cause hearing damage. Do not operate siren without adequate hearing protection for you and anyone in immediate vicinity. (Ref. OSHA 1910.95 for occupational noise exposure guidelines) 

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