

THE
SA-441M
MAGFORCE
MECHANICAL



from

CARSON
SIRENS

“The Fusion of Power and Sound”

The **SA-441M MAGFORCE MECHANICAL** takes warning sound performance to the next level by combining a classic Mechanical Tone and new Carson Air Horn with the power of an independent 2 channel, 200 watt amplifier for maximum clearing output. The dual tone feature of this siren incorporates our popular selection of siren tones and new Mechanical tone into alternating sweeps which gives the perception of 2 sirens operating at the same time. This shockwave of sound penetrates even the most sound-resistant vehicles on the road today.

What sets the **SA-441M MAGFORCE MECHANICAL** apart from other electronic sirens is the authentic reproduction of both a true Mechanical tone and a Stutter air horn sound. This combination offers an effective alternative to the costly Mechanical sirens and air horns that are traditionally installed on fire rescue apparatus. By eliminating the need for an exterior siren, as well as, air tanks, compressors and tubing, this compact siren is easy to install, space-saving and requires much less amp draw while still delivering that distinctive “Big Engine” sound.

Although designed primarily for use in ambulances and fire rescue vehicles, this universal siren has also made a strong impression on law enforcement. The ability of this siren to create the perception of a large emergency vehicle is being accepted and embraced by officers as an important safety feature.

- **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 provides that distinctive “Big Engine” horn sound without the need for bulky air tanks and compressors.
- **Dual Tone Mode:** It is just like having two sirens operating at the same time when this siren is in the dual tone mode. And with two distinct tones being produced at the same time, it covers the frequency range more completely.
- **A True 200 Watts:** The traditional 200 watt sirens are designed to automatically adjust output power for 1 or 2 speakers. This can lead to a loss in output power. The **SA-441M MAGFORCE MECHANICAL** siren is specifically designed for 2 speakers using 2 independent channels that produce 100 watts each for a true 200 watt total output.
- **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 dual tone flush mount siren that is 1” or less in depth.

Command attention with the **SA-441M MAGFORCE MECHANICAL**

SA-441M MAGFORCE MECH



Specifications

Siren	
Input Voltage	11 - 16 VDC (negative ground)
Input Current	17 Amps @ 14 VDC
Standby Current	Less than 250 ma
Audio Frequency	200Hz - 10kHz +/- 3db
Audio Distortion	Less than 3% (@ 1kHz - dual 100W speakers)
Audio Output	80W (@14 VDC dual 100W speakers)
Radio Input	0.75V RMS Min, 400 ohms nominal ± 10%
Output Power	210W RMS Max (@15 VDC - dual 100W speakers)
Siren Frequency	700Hz - 1500Hz (Mechanical 700Hz - 1600Hz) Two-Tone = 435Hz & 585Hz
Tones/Cycle Rates	Mech = 6 CPS, 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 selector switch (Radio, Standby, Mechanical, Wail, Yelp, Phaser), momentary push-button Siren switch, dual siren control toggle switch, front panel mounted PA volume, auxiliary input for +/- connection Amplifier: Radio volume adjust, 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, 3 speaker, 2 radio, and control input
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	6 Lbs
Ratings Met	Class A Sound Level, KKK

Features

- 200 watt 2 channel amplifier with remote control head delivers dual tone capabilities
- Dual mode switch to select between mono and dual tone modes
- 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 featuring replica Stutter sound
- Momentary push button for 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
- 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 amplifier
- No-hassle 5-year limited warranty

	SA-441M MAGFORCE MECH	Whelen 295HFSA7	Signal Vehicle Products (SVP) SS741MG
Single Line Control Head to Amplifier Connection	Yes		Yes
Control Head Depth of 1" or Less	Yes		
200 Hz - 10,000 Hz Audio Frequency Range	Yes		Yes
17 Amps or Less Maximum Current at 200 Watt Output	Yes		Yes
Carson Air Horn with Stutter	Yes		
Mechanical Tone	Yes	Yes	
Separate Dual Tone Selector and On/Off Switch	Yes		Yes
5-Year Warranty	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)