

SA-441-10 MAGFORCE

The **SA-441**
MagForce



from

CARSON
SIRENS

“The Original Dual Tone Siren”

They can't get out of your way fast enough when you come charging through with this monster of a siren. The **SA-441 MagForce** independent 2 channel amplifier produces 200 watts of traffic clearing output that will blow their doors off. When operating in the dual tone mode, it is like having two sirens in one with two separate tones at the same time. No other electronic siren is as powerful or as attention grabbing as the **MagForce**.

The **SA-441 MagForce** is the original dual tone siren. Initially designed for use in ambulances, this unique siren has also been discovered and embraced by the law enforcement and fire apparatus markets as well. Because vehicles continue to become more and more resistant to outside noise entering the drivers compartment, many have found that the increased output capacity of this true 200 watts siren along with the alternating sweep of two tones at the same time makes a huge difference in the ability of the operator to get the other drivers attention.

Many of the features that make the **SA-441 MagForce** a truly unique siren are highlighted below:

- **Dual Tone Mode:** It is just like having two sirens going at the same time when the 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. In the dual tone mode, the siren may produce Dual Wail, Dual Yelp, Dual Phaser, Dual Air Horn and combine Wail and Yelp at the same time.
- **A True 200 Watts:** The traditional 200 watt sirens are designed to automatically adjust output power for 1 or 2 speakers. Some output power is lost in adjusting from 1 to 2 speakers so that total output is actually less than 200 watts. The dual tone 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.
- **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.

The **SA-441 MagForce** blasts through traffic.

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1.888.577.6877 or 317.257.3191 - Fax 317.254.2667 - www.carsonsirens.com

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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 - single 100W speaker)
Audio Output	40W (@14 VDC per 100W speaker)
Radio Input	0.75 VRMS Min., 400 ohms nominal
Output Power	210W RMS Max (@15 VDC - dual 100W speakers)
Siren Frequency	700Hz - 1500Hz (Two-Tone & Air Horn = 435 & 585Hz)
Tones/Cycle Rates	Horn = 109 CPS, Wail = 13 CPM, Yelp = 190 CPM, Phaser = 15 CPS, Two-Tone = 60 CPM, Power C = 100 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, dual tone toggle, noise canceling microphone, PA volume control, auxiliary input for +/- Horn, Manual or HRC2 operation 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, California Title 13, 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 Wail, Yelp, Phaser, and Air Horn
- Momentary push button for siren override, Power C override 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 Cyler 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 screw-down terminals for the siren
- No-hassle 5-year limited warranty

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	<i>SA-441</i> MagForce	Whelen 295HFS7	Whelen 295HFS8	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
Air Horn Selectable on the Rotary Switch	YES			
Two-Tone/HiLo Selectable on the Rotary Switch	YES			
Separate Dual Tone Selector and On/Off Switch	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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