

## 7000 SIREN SERIES – SAFETY INSTRUCTIONS

**Installation of this equipment should be carried out only by a competent person observing good installation practice. It should be mounted so as not to cause any risks. Safety considerations should be given to sharp corners and mounting in the vicinity of air bag equipment.**



Sirens may get hot in use and they should be sited where this will not cause any hazards. The fan should not be covered and consideration should be given to allowing air flow over the amplifier.

Sirens are provided with a fused power lead assembly. Ensure this fuse is always the correct value for your model as specified by the Installation Instructions. If extending the power leads, do so at the end remote from the fuse and ensure the cable is heavy enough to carry the current for which it is fused. It is recommended that total power lead length be kept as short as possible. The loom supplied comprises 1.5mm<sup>2</sup> cable but for lengths in excess of 2 metres use heavier cable to minimise the voltage drop or amplifier output will be reduced. (High power sirens can draw up to 20 Amps.) The fuse should be as close to the battery as possible.

Loudspeakers should be mounted to cause minimum intrusion of noise into the vehicle and maximum sound projection outside the vehicle.

Loudspeaker wires if extended should be a minimum of 1.0 mm<sup>2</sup>.



This equipment generates high levels of sound which may be detrimental to hearing. Care should be taken during installation and testing so as to avoid endangering yourself or others.



Use of this equipment does not guarantee right of way over other road users and may not always be heard by them. It should be operated only by trained and competent personnel.

**The “Fault” light** should be treated as a warning of improper operation and possible causes be investigated and corrected before continuing to operate the amplifier. Persistent operation that causes the fault protection system to activate may result in damage to the amplifier.

It is not good practice to operate amplifiers without a loudspeaker connected. Persistently doing so may result in damage to the amplifier.

### **Repair**

If a fault develops please return both parts on 7007 and 7166 models.

It is strongly advised that customers do not attempt to make repairs to the amplifier. Exact replacement parts and customised test equipment are required to ensure correct performance. Failure to observe this can lead to a loss of audio quality, overheating and extensive damage to the circuitry.

## 7000 Series Siren – Specifications

### Standby Current

Model	Standby Current, mA	Panel turned On and in Standby, mA
7004/12	39	-
7004/24	39	-
7006/12	43	-
7006/24	43	-
7007/12	37	62
7007/24	37	62
7009/12	0	92
7009/24	0	123
7109/12	0	97
7109/24	0	108
7166/12	37	62
7166/24	37	62

These are typical measurements at 12.0 and 24.0 Volts respectively.

#### Notes for all models

- 1 Approx. 28 mA extra if HRT circuit in use and horn is positive switching.
- 2 Approx. 8 mA extra if software has Interlock and input is wired permanently to positive.
- 3 Up to 9 mA extra if software has pre-selected tones.
- 4 If Sound Alert (*Localizer*) Rev 2\_8 onwards, 40 mA extra.

#### 7166

Up to 660 mA extra for backlighting when vehicle dashboard lights on.

### Operating Voltage

**12 Volt Models:** 12 Volts D.C. nominal

**24 Volt Models:** 24 Volts D.C. nominal

Batteries must be in good condition with siren wiring as per instructions.

### Power Output

Model	1 – 58W 11R Loudspeaker (pin 2)	1 – 100W 11R Loudspeaker (pin 3)	2 – 200W 11R Loudspeakers (pin 3)	1 – Sound Alert 4R Loudspeaker (pin 3)
12 Volt	58 Watt	100 Watt	200 Watt	Unspecified
24 Volt	58 Watt	100 Watt	200 Watt	Unspecified

These are typical measurements at 13.8 and 27.6 Volts respectively for a 400 Hz tone.

2 – 100 Watt, 11 Ohm Loudspeakers in parallel – /H models only

### Operating Temperature

Min: - 30 °C      Max: Extended temperature Version (/T) 50 °C

All other models 35 °C

Maximum is for 5 hours continuous operation in siren mode subject to limitations of loudspeaker. Higher ambient temperatures than specified will proportionately reduce time before temperature shut down occurs. Audio modes vary greatly depending on drive and duty cycle and can be more or less demanding than siren. Amplifier should be mounted with good ventilation to achieve longest time cycle. Maximum temp when in Standby: 60 °C.

### Radio Input

Input required to achieve full output: 500 mV p to p

Impedance: 2k Ohm (200 Ohm DC)

### Dimensions

	Width	Height	Depth	Notes
7004/7006/7007/7166 Amp	149	48	176	2, 3
7007 Remote Panel	92	51	35	1, 2
7006 Junction Box	60	21	33	2
7009 / 7109 Amplifier	149	48	160	1, 3
7166 Control Panel	207	61	64	1

Dimensions in mm.

- 1 Knobs / Switches / plugs excluded from depth dimensions.
- 2 Mounting flanges included.
- 3 Includes fan (which can be up to 22mm extra).

### Standard Tones – Specifications and Volumes

Tone	Frequency (Hz)	Cycles / Min	Volume (dBA) 100 Watt	Volume (dBA) 200 Watt (/H)	@ Distance (m)
Wail	500 – 1800	11.125	117 – 127	121 – 132	1
Yelp	500 – 1800	178	121 – 126	125 – 131	1
Hi Lo	670, 1100	55	122 – 125	125 – 130	1
Pulsar	-	-	124 – 125	129 – 130	1
Air Horn	-	-	125	129 – 130	1

Volumes measured in anechoic chamber at 13.8 V D.C. Loudspeakers fitted with standard cowl.

Output volumes vary depending on tone up to a maximum output in the region of **132 dBA at 1 metre**.

### Weights

	Amplifier	Panel	Microphone	Looms	Packaged Total
7004	990	-	-	300	1460
7006	1000	-	300	300	1760
7007	1040	70	210	370	1820
7009 / 7109	1050	-	210	300	1760
7166	1040	640	210	410	2450

All weights typical worst case and in grams.

As part of our policy of continuous improvement we reserve the right to change specifications without notice.