

## 8. PROTECTION CIRCUITS

Your REFERENCE405 amplifier is protected against both overheating and short circuits by means of the following circuits:

- Main power supply fuses (2 at 20 amps each)
  - Smart Power Supply Thermal Rollback activating at 85°C.
  - A fail-safe thermal protection circuit activating at 95°C.
  - Speaker over-current protection relays (on the 4 x 25 watt channels).
- Your amplifier also incorporates an innovative Fault Diagnosis system that identifies a blown power supply fuse.
- *If you experience blown main power fuses, DO NOT increase values beyond 20 amp (each) fuses.*

## 9. TROUBLESHOOTING

PROBLEM	CAUSE
No sound and LEDs are not lit	<ul style="list-style-type: none"> <li>• no power or ground at amp</li> <li>• no remote turn-on signal</li> <li>• blown fuse near battery</li> <li>• amp power supply fuse is blown</li> </ul>
Fault LED is lit	<ul style="list-style-type: none"> <li>• check speaker configuration, amp may be in "High Power" mode, put amp into "High Current" mode if speaker load is less than 2 Ohms (see Section 2, <i>Selecting Operating Modes</i>)</li> <li>• speaker or leads may be shorted</li> <li>• verify adequate amplifier ventilation</li> </ul>
no sound from subwoofer channel with 2 or 4 channels of input	<ul style="list-style-type: none"> <li>• check input settings on bottom of amplifier--switch should be set at inputs "1, 2, 3 or 4" unless using external inputs</li> </ul>
no sound from channels 3 & 4 with 2 channels of input	<ul style="list-style-type: none"> <li>• check input settings on bottom of amplifier--switch should be set at inputs "1 &amp; 2"</li> </ul>

## 10. SERVICE

Your Soundstream amplifier is protected by a limited warranty. Please read the enclosed warranty card.

## 11. SPECIFICATIONS

### POWER OUTPUT

- 25 watts x 4 plus 100 watts x 1 (4 ohms, 12 V)
- 50 watts x 1 (4 ohms, 12 V, High Current)
- 40 watts x 4 plus 120 watts x 1 (4 ohms, 14.4 V)
- 200 watts x 1 (2 ohms)
- >240 watts x 1 (1 or 1/2 ohm)

- THD: <0.1%
- Signal to Noise: >100 dB
- Frequency Response: 20 Hz to 20 kHz +/- 0.5 dB (dedicated sub channel); 20 Hz to 400 Hz +/- 0.5 dB
- Bandwidth: 15 Hz to 50 kHz
- (dedicated sub channel): 15 Hz to 1 kHz
- Stereo Separation: >90 dB
- Damping: >200
- Input Sensitivity: 100 mV - 2.5 V
- Input Impedance: 12 k ohms

### Crossover Specifications:

- High Pass: 12 dB/octave, Continuously Variable from 60 - 240 Hz (front & rear)
- Low Pass: 24 dB/octave, Continuously Variable from 30 - 120 Hz

Dimensions: 16" W x 9-1/2" D x 2-1/4" H