TRITON

SQ SERIES AMPLIFIER

SQ16001

TRITON

Congratulations and thank you for purchasing Triton mobile amplifer. With a focus on quality, innovation, and value, Triton amplifiers feature a no-compromise design built for today's music. , Triton Audio makes no compromises in delivering incredibly accurate sound from a compact chassis.

To make sure your new amplifier performs its best, we strongly recommend you have your new Triton amplifier professionally installed.

Please use your new Triton amplifier responsibly. Listening to very loud music for extended periods of time can cause permanent hearing loss.

Triton SQ Series Amplifiers Features:

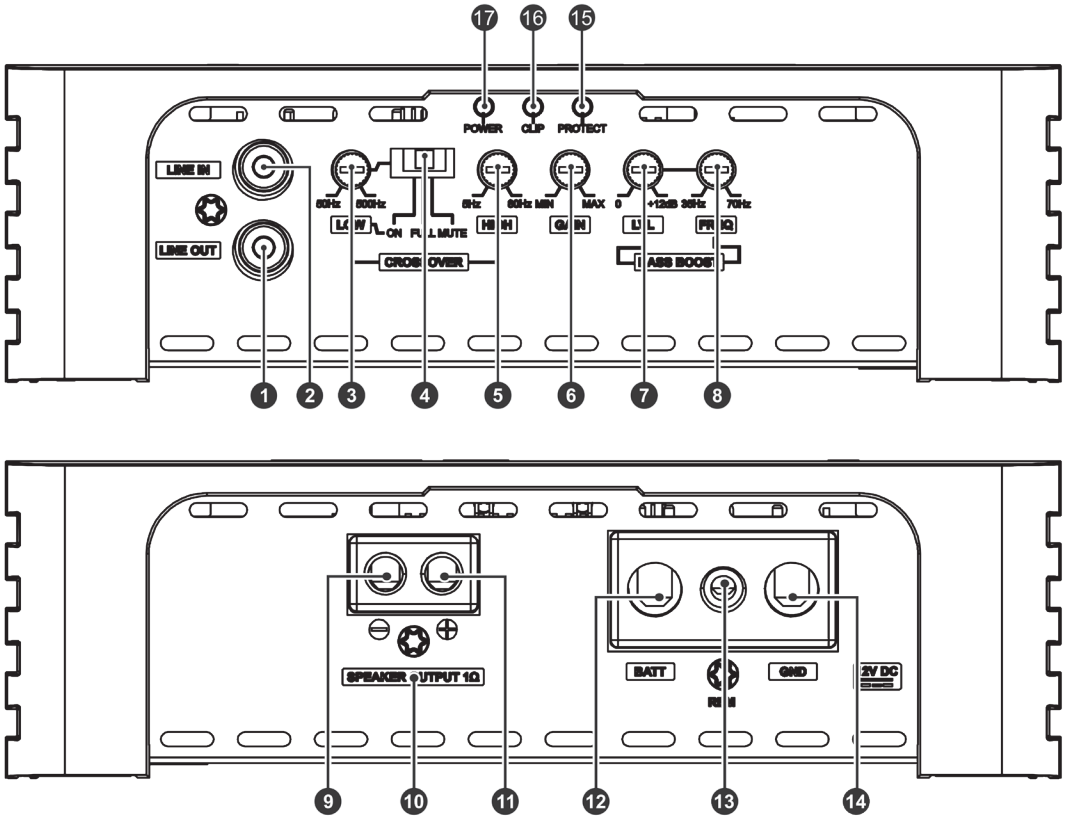
- **EPS Technology** – Triton Audio engineers have developed an enhanced power supply utilizing EE Ferrite Core Transformers. This means that the amplifier is more efficient in energy conversion while shielding the amplifiers from noise that can arrive from the audio output section. All Triton SX Series amplifiers utilize EPS Technology.
- **UHD Output System:** – Triton Audio's multi-channel full frequency amplifiers feature an amazing device – our Ultra High Definition High Frequency Self-Oscillating Half Bridge Output System. While it's a mouthful to say, the result our engineers have delivered is a full frequency response high definition sound that you will immediately hear. Today's music and the ability of music studios to deliver incredible source material means that new technology is needed to deliver the details whether you're in an ATV, boat, car or truck. UHD Output System is available on all Triton SQ Series full range amplifiers
- **MMS** – Our engineers went over the top in designing our 10000.1 monoblock behemoth. At 10,000 watts we knew we needed the perfect blend between instant power, maximum efficiency and reliability. Micro-Processed Modulation System (MMS) is a an ultra-high efficiency full bridge output stage that utilizes state of the art micro-processors to guarantee maximum efficiency and reliability
- **Pure and Solid Connectors** – Some amplifier makers utilize weak metal alloys trying to save money wherever possible. Triton Audio, with our Engineered for You philosophy only use pure, robust and solid connectors – this means better conductivity and heat dissipation for better sound and reliability.
- **Enhanced Heat Sinks** – Triton Audio has optimized all heat sink designs for maximum heat exchange from a very small footprint. This improves the efficiency of the amplifier and allows us to keep the footprint as small as possible.

I. Package Contents

- 1 SQ Series Amplifier
- Warranty Card

II. Specifications

Model	**SQ16001**
Power RMS 1Ω @ 14.4V	1600W
Power RMS 2Ω @ 14.4V	880W
Power RMS 4Ω @ 14.4V	484W
Frequency Response (-3db)	10Hz ~ 30kHz
Crossover LP 24dB/8	50Hz ~ 500Hz
Crossover HP 12dB/8	5Hz ~ 80Hz
THD+N (Nominal Impedance / 100Hz / LPF 15kHz / Nominal POWER)	0.1%
Damping factor (Nominal Impedance @ 100Hz)	>1000
Power Supply Voltage	9V ~16V
SNR	99dB
Input Sensitivity	0.5 ~ 8V
Current Draw (Music)	87A
Current Draw (Max)	174A
Total Efficieny	73%



01 Audio Output RCA connector;

02 Audio Input RCA connector;

03 Variable Low Pass Filter control (50Hz ~ 500Hz);

04 Selector switch - low pass filter / filter off / audio mute;

05 Variable High Pass Filter control (5Hz ~ 80Hz);

06 Variable signal gain control;

07 Variable bass boost control (0dB ~ +12dB);

08 Variable bass reinforcement frequency control (35Hz ~ 70Hz);

09 Negative speaker connector (-);

10 Minimum speaker load allowed ;

11 Positive speaker connector (+);

12 Positive power supply connector (+12V);

13 Remote power supply connector (REM);

14 Negative power supply connector (GND);

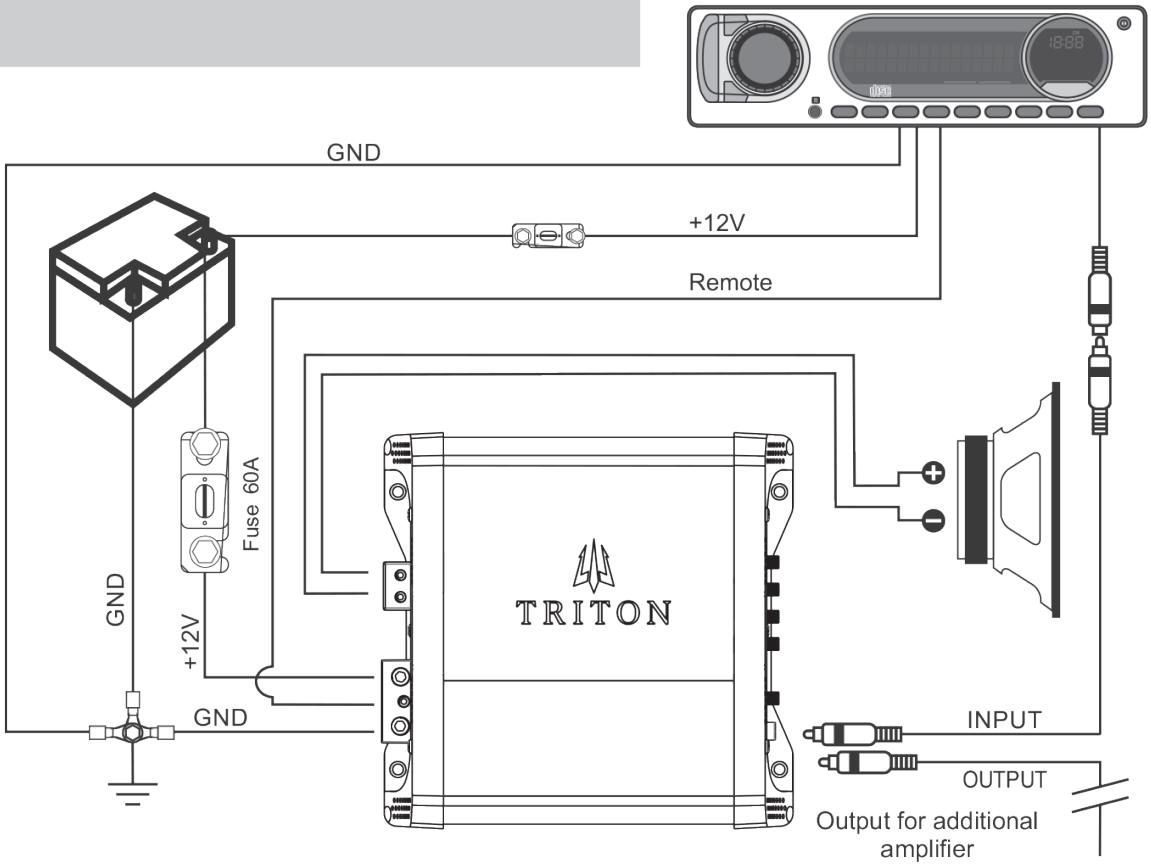
15 “Protection” LED indicator (Red);

16 “CLIP” LED indicator (Yellow);

17 “Power On” LED indicator (Blue).

III. Wiring Connections

Unplug the negative (-) terminal of the battery before proceeding with any eletrical installation in the vehicle.



To avoid unwanted noise in the system, join the ground points of the equipment and audio output to only one point.

After the end of the electrical installation, connect the negative cable of the battery and, before starting the audio system, check if all connections are correctly done.

In order to adjust the gain, use the headunit volume in 70% of its total, play a musical program of your preference and turn up the gain until the clip led blinks. Set the gain in a position where the “CLIP’’ LED doesn’t blink.

Some headunits with strong signal output may reach max power even when the gain is next to its minimum. In that case, limit the volume of the headunit right before the point where the clip led starts blinking.

Warning!

Gain positioning over the correct spot may cause noise, trigger protection state or damage to the speakers.

Adjust the Low and High pass filters according to your preference and needs of the speakers.

If you have any doubts, talk to the speaker’s manufacture.
The selection key only defines the low pass filter. The high pass filter is always in action, regardless the key position. (Unless it is in the “mute” position).

If you need to increase the bass response, adjust the frequency and gain of the bass boost according to your preference. Make sure the “CLIP’’ LED does not blink with the new setting.