



LS5-PCL/LS6-PCLV Power Conditioner



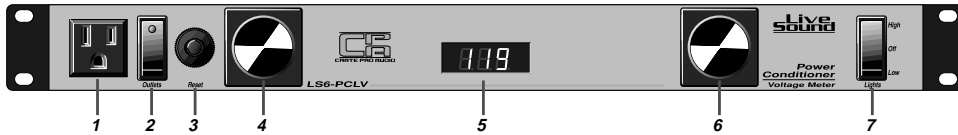
Operations Guide

The Crate Pro Audio **LS5-PCL/LS6-PCLV Power Conditioner** offers excellent surge suppression and AC power conditioning, providing important protection for your sensitive electronic equipment. Dual transient/surge suppressors clamp harmful voltage spikes and power surges before they can damage your valuable equipment. Dual electromagnetic and radio frequency interference filters suppress power line noise, thus preserving the integrity of sensitive audio and video signals. A voltage meter (LS6-PCLV only) accurately monitors the line voltage, while the retractable lights and an extra front mounted AC outlet add extra convenience.

In order to obtain the best protection from your **LS5-PCL/LS6-PCLV Power Conditioner**, please read this operating guide before connecting it to your equipment. And **Thank You** for selecting Crate Pro Audio.

CP CRATE PRO AUDIO LS5-PCL/LS6-PCLV Power Conditioner

The Front Panel:



1: AC Outlet: Plug in an AC line cord here. Power to all of the outlets (#1,9) is controlled by the Outlets switch (#2).

2: Outlets Switch: Use this switch to apply AC power to the outlets (#1,9) and the lights (#4). The LED on the top segment of the switch illuminates when this switch is on.

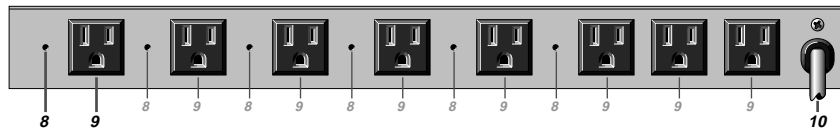
3: Reset Switch: This feature protects the unit and the electronics connected to it from possible overload conditions. If the reset switch pops out, turn off the unit and wait a few moments until the switch can be pressed back in. If the switch pops out continually, disconnect the electronics one at a time until the problem component is found.

4,6: Lights: Use these retractable lights to provide illumination for the electronics in your rack. Gently pull the tubes out to access the lights.

5: Meter (LS6-PCLV only): Use this meter to monitor the AC line voltage. The meter is on whenever the unit is plugged in.

7: Lights Switch: Use this switch to control the retractable lights (#4,6). The lights are off when the switch is in the center position, on low when the bottom of the switch is depressed, and on high when the top of the switch is depressed.

The Rear Panel:



8: Retaining Strap Holes: Use these holes to attach the retaining straps. Complete instructions are on the facing page.

9: AC Outlets: Plug in your AC line cords and/or power adapters here. Power to all of the outlets is controlled by the Outlets switch (#2).

10: AC Line Cord: This heavy duty power cord must be connected to a grounded AC outlet of the proper voltage. **IN ORDER TO AVOID THE POSSIBILITY OF ELECTRIC SHOCK, DO NOT REMOVE OR BYPASS THE GROUND PRONG OF THE POWER CORD.**

Why Use a Power Conditioner?

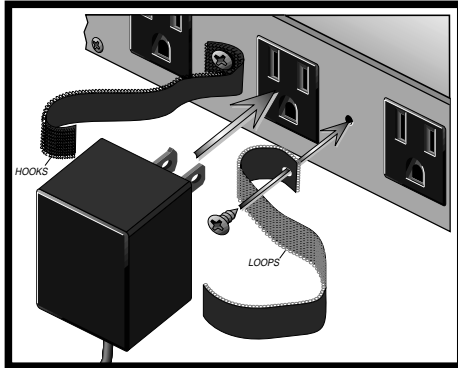
Almost every source of "unconditioned" AC power will have some voltage spikes and power surges¹. While most of these are small enough not to cause serious damage to electronic components, some spikes and surges may be strong

enough to damage or destroy unprotected electronic devices. Microprocessor-based electronics are the most susceptible to this type of damage and should be protected from potentially dangerous transients by using a conditioned line source.

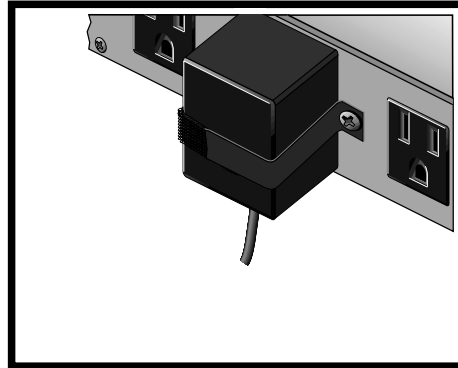
¹A voltage spike is a short burst of AC power far above the normal rating of the AC line voltage. A power surge is a longer burst of power, but lower in voltage than a spike.

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Using the Retaining Straps:

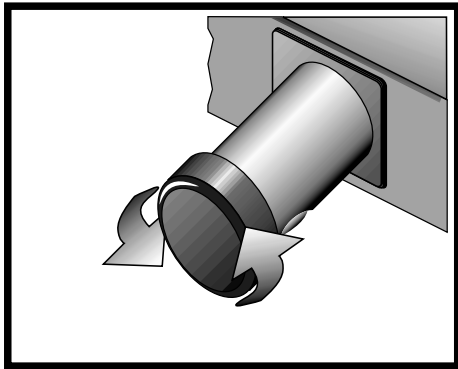


- 1: Cut apart a hook-and-loop strap where the two parts join in the middle.
- 2: Screw the straps into the holes next to a power outlet as shown ("hooks" out, "loops" in). **To avoid possible damage or shock hazards, use only the supplied thread forming screws**

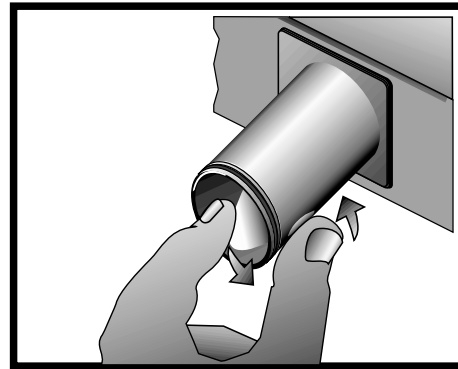


- 3: Plug a voltage converter into the outlet.
- 4: Stretch the "hook" section around the converter, pull the "loop" section tight and press it firmly down over the loops. **or the same type of screw no longer than 1/4".**

Changing the Light Bulbs:



- 1: **To Avoid the risk of electric shock, turn the lights off (dimmer control fully counter-clockwise) or disconnect the unit's power cord from its power source.** Pull the light tube out from the unit.
- 2: Unscrew the cap from the end of the light tube and set it aside.








- 3: Using your thumb and forefinger, gently rotate the bulb counterclockwise. Use your thumb to work the bulb through the hole along the bottom of the light tube while pressing down on the bulb with your finger.
- 4: Reverse the process to install the new bulb.

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Specifications:

Clamping Voltage	395 volts peak
Response Time	1nS
Maximum Transient Power Dissipation	0.8 Pm-watts
Varistor Voltage	216 – 264 volts
Energy	108J
Peak Current (8/20uS)	6500A
Typical Capacitance	2200pF
Power Rating	15 Amps, 1800 Watts, 120VAC
Size and Weight	19"W x 1.75"H x 6.5"D LS5-PCL: 6 lbs; LS6-PCLV: 6.5 lbs.

Features:	LS5-PCL	LS6-PCLV
Dual spike / surge protection	√	√
EMI / RFI filtration	√	√
Front panel AC outlet	√	√
Front panel circuit breaker	√	√
Front panel volatge meter	—	√
Dual Retractable lights w/dimmer control	√	√
Voltage converter retaining straps	√	√
6 foot, 14-gauge heavy duty line cord	√	√
ETL / cETL listed	√	√

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	 ATTENTION RISQUE D'ELECTROCUTION NE PAS OUVRIR	 VORSICHT ELEKTRISCHE SCHLAGEGFAHR NICHT OFFENEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	ATTENTION: POUR REDUIRE DELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE N'EST REPRABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.	VORSICHT: ZUR MINIMIERUNG ELEKTRISCHER SCHLAGEGFAHR NICHT DEN DECKEL ABENHMEN. INTERNE TEILE KONNEN NICHT VOM BENUTZER GEWARTET WERDEN. DIE WARTUNG IS QUALIFIZIERTEM WARTUNGSPERSONAL ZU UBERLASSEN.
THIS EQUIPMENT HAS BEEN DESIGNED AND ENGINEERED TO PROVIDE SAFE AND RELIABLE OPERATION. IN ORDER TO PROLONG THE LIFE OF THE UNIT AND PREVENT ACCIDENTAL DAMAGES OR INJURY, PLEASE FOLLOW THESE PRECAUTIONARY GUIDELINES: CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN CHASSIS; DO NOT DEFEAT OR REMOVE THE GROUND PIN OF THE POWER CORD; CONNECT ONLY TO A PROPERLY GROUNDED AC POWER OUTLET. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. CAUTION: NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
EXPLANATION OF GRAPHICAL SYMBOLS:  = "DANGEROUS VOLTAGE" / "DANGER HAUTE TENSION" / "GEFAHLICHE SPANNUNG"  = "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL" / "REFERREZ-VOUS AU MANUAL D'UTILISATION" / "UNBEDINGT IN DER BEDIENUNGSANLEITUNG NACHSCHLAGEN"		



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