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## AUTOMOBILE POWER ADAPTER

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The Lind Automobile Power Adapter is designed to power your laptop computer and to charge its internal battery from an appropriate DC voltage power source (see adapter label for acceptable DC voltage ranges). The adapter supplies current and voltage levels as required by the laptop.

The adapter provides safe power to your laptop by protecting it from spikes and power surges which may occur in a DC voltage electrical system.

80-120 watt adapters cannot be used with airline in-seat power systems. The airline in-seat power system is limited to a maximum output of 75 watts.

Use only with IT equipment. Protection Class III.



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### SPECIAL USE WARNING

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Do not use this adapter with a lighter plug splitter or extender cable. These devices can cause the adapter cigarette lighter plug to become very hot. The plastic case of the splitter receptacle traps the heat in the plug and does not allow it to dissipate.

For assistance and recommendations for connecting multiple devices to the same source, call Lind Technical Support at 1-800-659-5956 or 1-952-927-6303.


# OPERATING INSTRUCTIONS

This Lind adapter is supplied with one of two types of cigarette plug connectors. One version has an LED to indicate that input power is present. The other version has a slide switch to provide a tighter fit in some cigarette sockets. Move the switch from position N (narrow) to W (wide) if the connector fits loosely in the cigarette socket. Some models also include an airline in-seat power cable.





Lind 80-watt and higher power adapters are not supplied with the airline input cable. This is because the airline in-seat power source is not capable of powering laptops whose power requirements exceed 75 watts.

## AUTO POWER ADAPTER CONNECTIONS

NOTE: ADAPTER BODY MAY LOOK DIFFERENT THAN THE ONE PICTURED HERE



The diagram shows a black Lind Auto Power Adapter with a textured top surface. Labels with leader lines point to the following components: INPUT CABLE JACK (top left), OUTPUT CABLE JACK (bottom left), OUTPUT PRESENT LED (top right), and FUSE (bottom right). The adapter has a cigarette lighter plug on the left side and a power output port on the right side.

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|--|---|---|---|
| <br>CIGARETTE LIGHTER /<br>AUXILIARY PORT INPUT<br>CABLE (SOME MODELS) | <br>BARE WIRE / FLYING<br>LEADS INPUT CABLE<br>(SOME MODELS) | <br>OUTPUT CABLE | <br>AIRLINE INPUT CABLE<br>(FOR 70-WATT AND LOWER<br>POWER ADAPTERS) |
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## TECHNICAL INFORMATION

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|---------------------|--|
| <b>Power Input</b>  | Noted on label   |
| <b>Power Output</b> | Noted on label   |
| <b>Input Fuse</b>   | Auto Mini - Noted on label<br>(Replace with same fuse as in adapter)   |
| <b>Indicators</b>   | LED on lighter plug on some models (Input present)<br>LED on adapter (Output power present)  |
| <b>Features</b>     | Output Short Circuit Protected<br>Output Current Limit<br>Internal Overtemperature Shut down<br>Low Input Voltage Shut down<br>High Input Voltage Shut down<br>Automatic Reset of Safety Shut down |

NOTE: This adapter utilizes components that may degrade if stored unused for several years. Apply power for several minutes yearly to avoid problems.

# COMMON QUESTIONS ABOUT LIND'S AUTOMOBILE POWER ADAPTERS

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## **What if the output LED on the adapter does not light when plugged in?**

Some cars must have the engine running or have the ignition key to the ON position in order to have power occur at the lighter socket. On commercial flights, the airline in-seat power port may be turned off during parts of the flight. It is also possible that one of the safety shut down circuits in the adapter has tripped. If so, allow the automatic reset to restore the output power for the adapter. Also check to see if the fuse on the adapter has blown.

## **Is it normal for the adapter to get warm during use?**

Yes. Restricted air flow around the adapter may also cause the adapter to overheat and shut down. This is a safety feature and does not harm the adapter or your computer. Do not place the adapter in a vehicle glove compartment or other restrictive area, or cover it with anything that prevents the heat from dissipating.

Does it matter whether the input cable or output cable gets plugged in first?

No, the order in which you plug in the cables to the adapter does not matter.

## **Can I plug the computer into the adapter when it is running?**

Yes, you may plug the computer into the adapter when the computer is running.

## **Can I start or stop the vehicle engine with the adapter plugged in?**

You can start or stop the vehicle engine with the adapter plugged in; however, do not jump start the vehicle with the adapter plugged in. Many jump start systems use high voltages that will normally shut down the adapter output but extreme voltage spikes may damage the adapter circuitry. Also, starting the vehicle may turn the adapter off. After a ten second delay, the adapter will turn back on.

## **Can I use my Lind adapter with the in-seat power system on an airplane?**

The airline in-seat power system for most commercial airlines is limited to 75 watts. As a result, you may use a 70-watt Lind adapter on a commercial airline flight. However, 80-120 watt adapters cannot be used with the airline's in-seat power system.

## **Can my Lind adapter be used with a multi-output cigarette plug splitter?**

No, do not use this Lind adapter with multi-output cigarette plug splitters. These devices can cause the cigarette lighter plug on the adapter to become very hot. The plastic cases of multi-output cigarette plug splitters can trap the heat and not allow it to dissipate. Call Lind for alternate ways of connecting more than one device to your DC power source.

## **How often should I apply power to the adapter to keep its components from degrading?**

The adapter must be powered for several minutes once a year to avoid the components from degrading.

Replacement and direct input connection cables are available from Lind. Call Lind with your needs. Replacement fuses can be obtained from Lind or from auto parts stores.

## LIMITED WARRANTY

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Lind Electronics, Inc. (LIND) warrants the circuit assembly portion of products manufactured by it to be free of defects in material and workmanship for a period of 3 years\* from the date of purchase under normal use. During this warranty period, LIND will, at its option, repair or replace the product at no charge for parts or labor when the product is returned postage paid as a complete unit to LIND. Proof of purchase and a letter explaining the problem must accompany the returned unit.

This warranty does not apply if any part of the adapter, its cables or connection jacks have been altered, subjected to abuse, accident or misuse. This warranty excludes incidental or consequential damage resulting from the product or the use of the product. This warranty is in lieu of all other warranties expressed or implied and no person is authorized to assume for LIND any other liability in conjunction with this product. The warranty gives you, the purchaser, specific legal rights and you may have other rights which may vary from state to state and country to country.

The LIND product you are purchasing has not been designed for, or certified for use in, life support applications. Any such use is at your own risk. LIND ELECTRONICS, INC. HEREBY EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Lind Electronics, Inc. will not be liable for any claims, awards, damages or other liability arising out of the use of LIND products for life support applications whether in the nature of direct, indirect, consequential, special or punitive damages.

\* 1 year warranty on custom built adapters and adapters with permanently attached (hardwired) cables.



**Lind Electronics, Inc.**

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