

# **SmartAir™ Operator Manual**

This manual describes the Peterbilt Motor Company's idle free air conditioning system, how to operate it and how to maintain it. Please keep this manual, along with the other manuals, with the vehicle at all times for future reference.

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This manual illustrates and describes the operation of features or equipment which may be either standard or optional on this vehicle. This manual may also include a description of features and equipment which are no longer available or were not ordered on this vehicle. Please disregard any illustrations or descriptions relating to the features or equipment which are not on this vehicle.

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## Safety



**WARNING!** Excessive heat may cause your air conditioning system to explode, which may result in death or personal injury. Never weld, solder, steam clean, or use a blow torch near any part of the air conditioning system. Failure to comply may result in death, personal injury, equipment or property damage.



**WARNING!** Air conditioning refrigerant can be hazardous to your health. Do not expose yourself to leaking refrigerant for prolonged periods, near excessive heat, open flames, or without proper ventilation. Failure to comply may result in death or personal injury.



**WARNING!** The air conditioning system is under pressure. If not handled properly, it could explode, causing injury to you and your vehicle. Any servicing that requires depressurizing and recharging the air conditioning system must be conducted by a qualified technician with the right facilities to do the job.



**CAUTION:** Do not modify the electrical system. Modifications to the system may affect vehicle performance, which may lead to equipment or property damage.



**CAUTION:** The system uses PVE refrigerant oil to lubricate the compressor. Use of other refrigerant oils, such as PAG, will damage the compressor.

## Environmental Protection and Material Hazards

Some components of the air conditioning system (refrigerant, PVE oil, batteries, etc.), contain hazardous substances and may contaminate the environment if spilled or not disposed of properly. Failure to comply with environmental regulations can result in civil or criminal penalties. Contact your local government agency for information concerning proper disposal.

## Introduction

This vehicle is equipped with supplemental air conditioner in addition to the standard sleeper air conditioner. This system will help maintain sleeper temperature without idling the engine. The system consists of a battery operated air conditioner mounted underneath the sleeper bunk, a control panel above the bunk and a condenser that is mounted to the outside back wall of the sleeper. If the vehicle is also equipped with a fuel fired heater, the system will provide heat when necessary.

The system has three primary modes. In AUTO mode, the system will adjust output air temperature and fan speed to maintain the temperature set by the operator. In the manual COOL or HEAT mode, the system will output a constant air temperature based on the operator input. Additionally, the control panel provides a reminder indicator for air filter maintenance and a operational timer that can be used to monitor usage (in hours) of the system.

## Components

### Control Panel

The control panel has a display screen on the top and 4 buttons on the bottom. The power button turns the unit on and off. The button on the right is the enter button and is used to select the setting to be changed. The up and down arrows allow the user to change system settings.

