



Peterbilt 579

Vanner idleWATCH® II

Sleeper Compartment Energy Management Engine Auto Stop-Start / Engine Idle Shut Down

Your new Peterbilt 579 sleeper compartment is equipped with Vanner's IdleWATCH® II Idle Reduction and Peterbilt's SmartAir™ Battery Powered Air-Conditioning Systems. This technology is provided for your comfort, allowing you to rest in the sleeper compartment exactly as you do now, but with the engine off.

There are two separate electrical systems on the Peterbilt 579

System 1 - The OEM electrical system uses the STARTING BATTERIES for engine-off power.

- The **OEM system provides power for the Interior Lights, Radio, Windows**, and other DC loads.
- The **OEM system will not auto-start the engine** if the STARTING BATTERIES are discharged.
- The OEM low-voltage disconnect will turn of the DC loads to protect the STARTING BATTERIES.
- There will be an audible alarm from the dash when the low voltage disconnect occurs.
- Loads being powered by System 1 should only be operated for short periods of time.**

System 2 - The auxiliary system uses the AUXILLARY BATTERIES for engine-off power.

- The auxiliary system provides power for the sleeper compartment SmartAir™ Air Conditioning System and Inverter only.
- The auxiliary system includes the idleWATCH® II. **It will auto-start the engine** when the AUXILLARY BATTERIES are discharged below a predetermined state of charge.

**Please take the time to understand the system and it's simple operation.
You will be rewarded with a quiet and comfortable sleeping environment.**

If you do not engage the idleWATCH® II you will not have any electrical power in the sleeper compartment.

Vanner idleWATCH®II Operation

The SmartAir™ Air Conditioning and Inverter will only work when the IdleWATCH®II AUTO-START function is active.

If you do not engage the idleWATCH®II you will not have any electrical power in the sleeper compartment.

The idleWATCH®II and SmartAir™ Control Panels are located on the sleeper compartment wall behind the driver.

Vanner
idleWATCH®II
Control Panel

See closer view on back



Peterbilt
SmartAir™
Control Panel

See SmartAir™ Manual for
operation instructions

When the auxiliary batteries that power the SmartAir™ and all of the sleeper compartment electrical loads are discharged to a preset state-of-charge, the idleWATCH®II will AUTO-START the engine and keep it running.

When the auxiliary batteries are properly recharged the idleWATCH®II will automatically shut the engine off.

The idleWATCH®II must always be engaged first, even if the SmartAir™ air conditioning or auxiliary heater are not used. The inverter will not operate if the idleWATCH®II is not engaged.

The engine must be off. The idleWATCH®II will not engage if the engine is running.

Vanner idleWATCH® II Operation

The AUTO-START function has five safety interlocks:

- | | |
|------------------------|----------------------------------|
| -Hood | Must be closed and latched |
| -Tractor Parking Brake | Must be set |
| -Ignition | Key OFF or removed from tumbler |
| -Service (Foot) Brake | Must not be depressed or touched |
| -Transmission | Must be in neutral |

AUTO-START will not enable unless all five safety interlocks are met.

It will immediately turn the engine off if any of the safety interlocks are defeated while the engine is AUTO-STARTED.

The AUTO-START function is enabled when the green AUTO-START LED is illuminated on the Vanner Remote Panel

To operate the system:

- Shut the truck engine off.
- Transmission must be in neutral.
- Hood must be closed and latched.
- Tractor Parking Brake must be set.
- Do not touch the Service Brake.
- Press both **ENABLE BUTTONS** simultaneously and hold for three seconds to turn AUTO-START on.
- Now you can turn on the SmartAir™ air-conditioning and the inverter to power your other electrical loads.
- Turn AUTO-START off by pressing the OFF button. If any of the safety interlocks are defeated it will turn the AUTO-START off also.



If you do not engage the idleWATCH® II you will not have any electrical power in the sleeper compartment.

Vanner idleWATCH® II Operation

ENGINE IDLE SHUT DOWN

The idleWATCH® II is controlling the engine idle shut-down.

Once the Tractor Parking Brake is set, the idleWATCH® II will shut off the engine after 3 minutes if left idling.

An audible alarm will sound 10 seconds before engine shut off to alert you.

If engine shut off occurs, cycle the key off then on to restart the engine if the vehicle will be driven. If the shut off occurs when parked, engage the idleWATCH® II per the previous instructions.

TROUBLESHOOTING

The idleWATCH® II does not require the driver to monitor the system or start the engine for battery charging. However there may be a need to troubleshoot the truck if the system will not enable.

The GREEN AUTO-START LED will be illuminated if the idleWATCH® II is enabled. If it does not illuminate, the most likely cause is one of the five safety interlocks are defeated.

CHECK THE FOLLOWING

FIRST - CHECK THAT THE IGNITION KEY IS IN THE OFF POSITION, OR REMOVED FROM THE SWITCH.

SECOND - CHECK THAT THE VEHICLE IS IN NEUTRAL, THE LEVER MUST BE IN THE CENTRAL POSITION, NOT PUSHED TO THE EXTREME LEFT OR RIGHT. IF THE LEVER IS MOVED FROM CENTER THIS MAY TRIGGER THE idleWATCH® II TO SHUT OFF. THE SYSTEM WILL NEED TO BE RE-ENABLED IF SHUT OFF FOR SAFETY.

THIRD - CHECK THAT THE PARKING BRAKE IS SET.

FORTH - CHECK THAT THE SERVICE BRAKE PEDAL IS NOT BEING DEPRESSED BY AN OBSTRUCTION.

FIFTH - CHECK THE HOOD TO BE SURE IT IS CLOSED AND LATCHED.