

Driver's Quick Reference Guide for

# CARRIER'S COMFORT PRO APU

A large, stylized red logo consisting of two mirrored, curved shapes that form a central vertical gap, resembling a stylized 'S' or a pair of wings. The word "SALEM" is written in a white, serif font across the center of this logo.

# SALEM

Includes:

How to use the APU in both manual &  
automatic modes of operations



# HOW APU OPERATES



The ComfortPro has two modes of operation: manual and automatic.

## Manual Mode

You start the APU from within the truck bunk using the APU On/Off button on the driver control panel (DCP). Once the APU is running, you can start and stop the fan, heater and air conditioning using the DCP. See page 1-5. Once the heater or A/C is running, it will cycle (automatically turn on and off) in order to keep the truck bunk at the temperature you specify. The HVAC will continue to cycle until you turn it off. While the HVAC is cycling, the APU remains on and will only turn off when you manually turn it off using the button on the DCP.

Note that in manual mode, the APU remains on until you turn it off. But in Comfort Monitor mode (described below), the APU automatically turns off and on as required.

When the APU is running, power is supplied to the power outlet in the truck bunk (except in high heat).

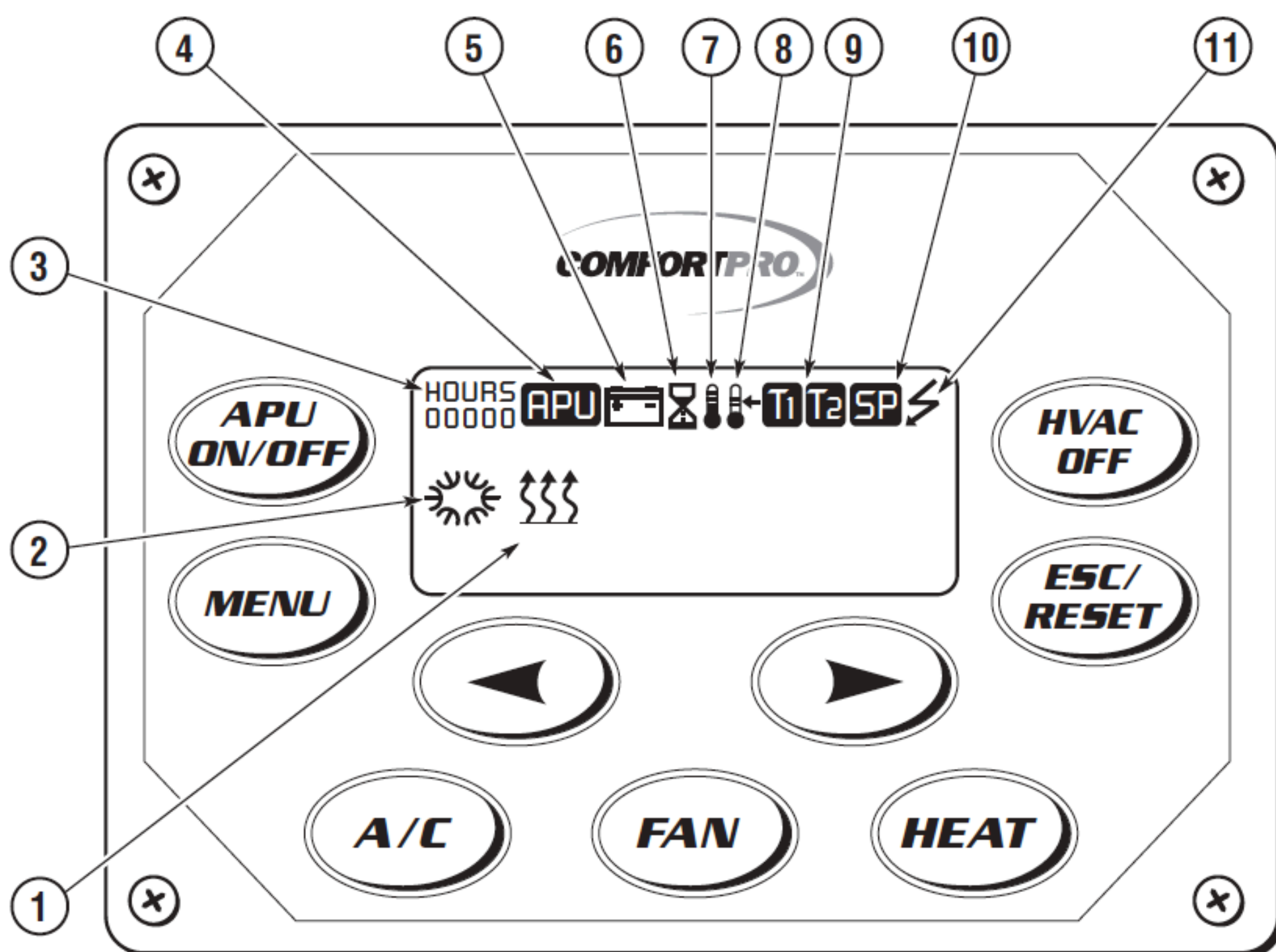
In manual mode, the APU will turn off automatically if the Maximum Run Time is reached.

## Automatic Mode

The ComfortPro has several functions that will start it in automatic mode.




# DISPLAY LEGEND




- 1 When visible, the heating system is heating.
- 2 When visible, the A/C is cooling.
- 3 Indicates the number of operating hours on the APU.
- 4 Indicates the state of the APU.
  - The APU engine is running.
  - The APU engine is off.
  - The APU engine is in the starting process (flashing).
- 5 Indicates that Battery Monitor mode is enabled.
- 6 Indicates that maximum run time is enabled.
- 7 Indicates that Temp Start mode is enabled.
- 8 Indicates that Comfort Monitor mode is enabled.
- 9 Indicates that Timer 1 or Timer 2 mode is enabled.
- 10 Indicates that the ComfortPro is connected to shore power. The APU cannot be started in Shore Power mode.
- 11 Indicates the state of the 115V outlet and CCU auto-reset breakers.
  - 115 VAC power is being supplied to the outlet.
  - No power is being supplied to the outlet.
  - Outlet breaker has tripped.
  - High Heat/Outlet breaker has tripped.
  - The breaker that tripped has reset automatically and the DCP needs to be reset.

# MANUAL OPERATIONS

## 1.) STARTING THE APU

Press and release  once.

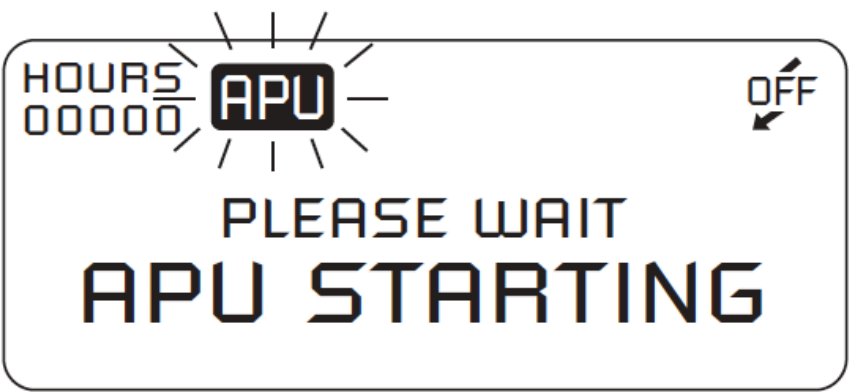
The display shows "**PLEASE WAIT – APU STARTING**" and  flashes.

When  stops flashing, then the APU has started successfully.

The APU startup sequence consists of 20 seconds of glowing (30 seconds when the ambient temperature is below -5°C or 23°F) and up to 10 seconds of cranking.


If the sequence fails, "**RESTARTING**" appears for six seconds. Then the startup sequence automatically repeats up to five times or until the APU starts.

If "**CRANK LIMIT**" appears, see Troubleshooting section.



## 2.) STOPPING THE APU

Press  .

The APU will stop. The display shows .






Make sure to shut down HVAC before stopping APU!

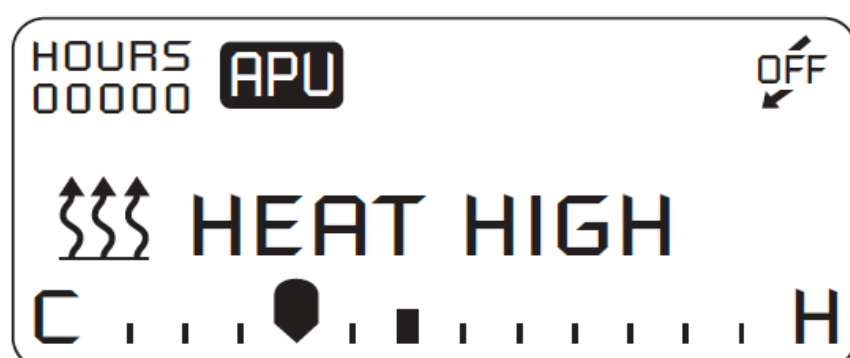
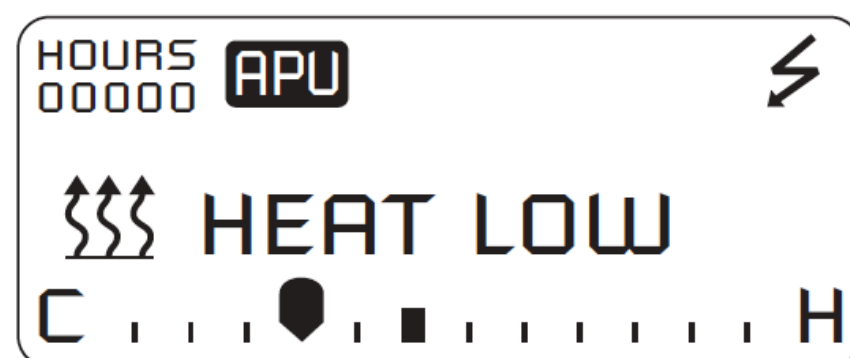


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## 3.) TURNING HEATER ON/OFF

- 1 Press  to activate the heater.  
The display shows **"HEAT LOW"**.  
The heater will turn on only if the temperature is too low (to adjust the temperature, see below). When the heater is on,  appears.
- 2 Press  again to switch between high and low heat to heat the truck bunk more or less quickly. In **"HEAT HIGH"** mode, the power outlet is disabled and the display indicates .  
The heat will turn off when the desired temperature is reached.
- 3 Press  to deactivate heating.







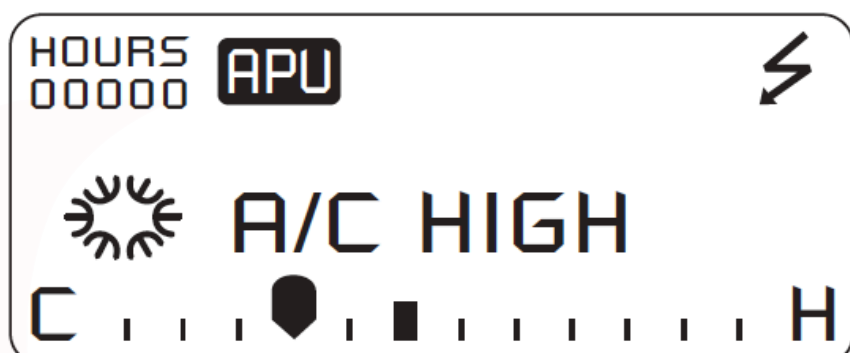
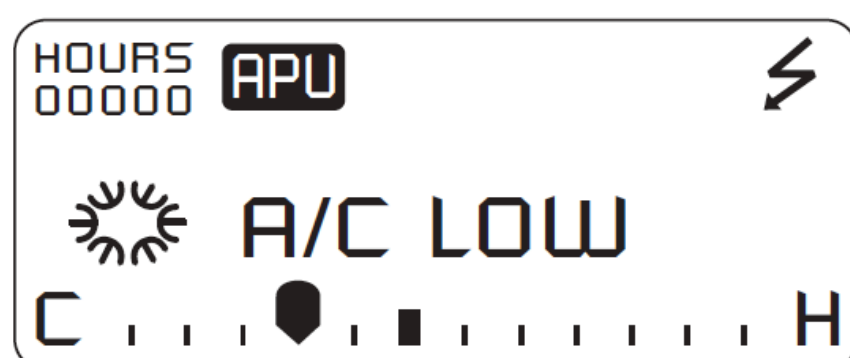
### SETTING HEATER TEMPERATURE

Press  or  when the heater is on (**"HEAT LOW"** or **"HEAT HIGH"** shows).



The notch on the temperature bar moves. The heater will automatically turn on and off to maintain this temperature.

## 4.) TURNING A/C ON/OFF

- 1 Press  to activate the A/C.  
The display shows **"A/C LOW"**.  
The A/C will turn on only if the temperature is too high (to adjust the temperature, see below). When the A/C is on,  appears.
- 2 Press  again to switch between high and low A/C to cool the truck bunk more or less quickly.
- 3 Press  to deactivate the A/C.



### SETTING A/C TEMPERATURE


Press  or  when the A/C is on (**"A/C LOW"** or **"A/C HIGH"** shows).

The notch on the temperature bar moves. The A/C will automatically turn on and off to maintain this temperature.

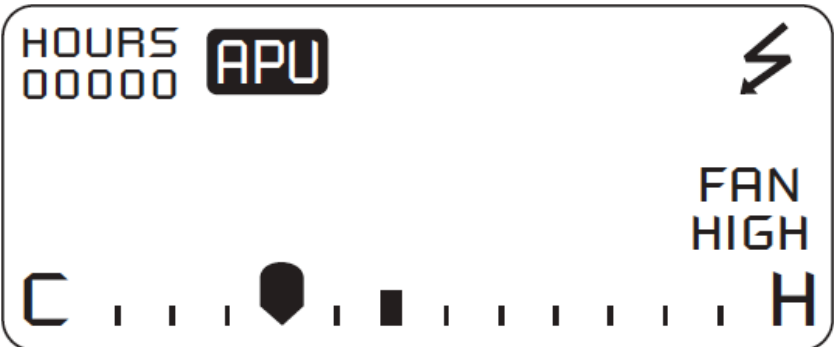
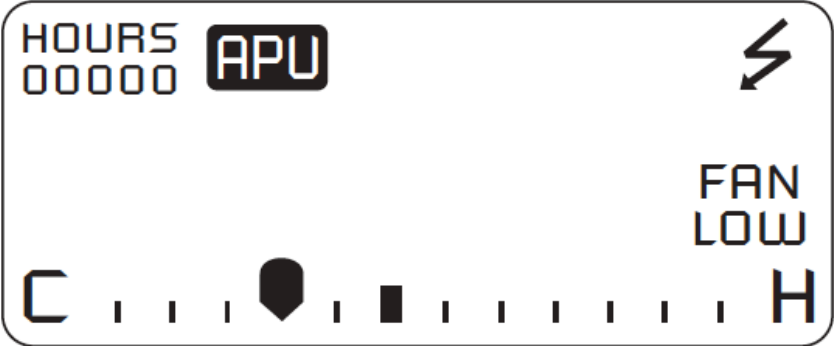
# 5.) OPERATING THE FAN BLOWERS

You can still have the fan working even when the temperature is not low or high enough for the heat or A/C to come on.

The fan operation is independent of the air conditioning and heat modes. When the fan speed is manually set to high or low, the fan will return to that setting when the desired temperature has been reached as the air conditioning or heat cycles off.

Press  to toggle between low, high and off.

The speed of the fan may automatically change when the heat or A/C comes on, then automatically change back when the heat or A/C goes off.







## AUTOMATIC OPERATIONS

### 1.) USING COMFORT MONITOR




None of the following automatic features of this guide are passcode protected on Salem Equipment; if your's is passcode protect, contact your supervisor for assistance.

You can specify the temperature you want in the truck bunk. Whenever the truck bunk temperature goes 2° above or below this temperature, the APU starts and the HVAC turns on until that temperature is reached or for fifteen minutes, whichever is longer.

#### Enabling COMFORT MONITOR

- 1 Press .
- 2 Press  or  until "**COMFORT MONITOR**" is displayed, then press .















- If "**ENTER PASSWORD**" is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).
- 3 Press  or  to display "**ON**" or "**OFF**".
  - 4 Press  to confirm this setting.

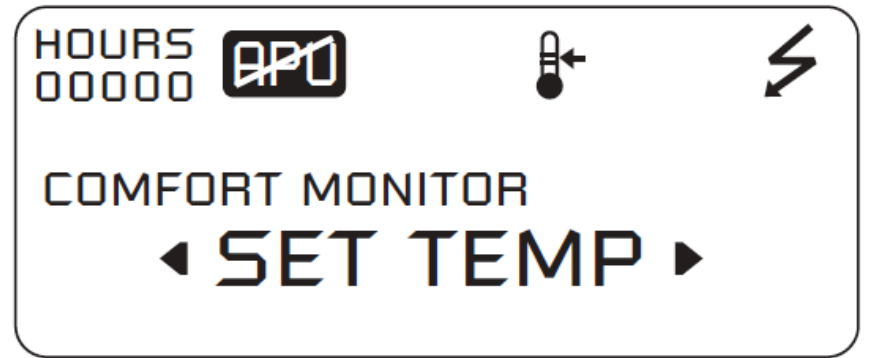
The current setting remains until you change it; turning off the APU or manually starting the APU does not permanently cancel this setting.















# USING COMFORT MONITOR - CONT'D

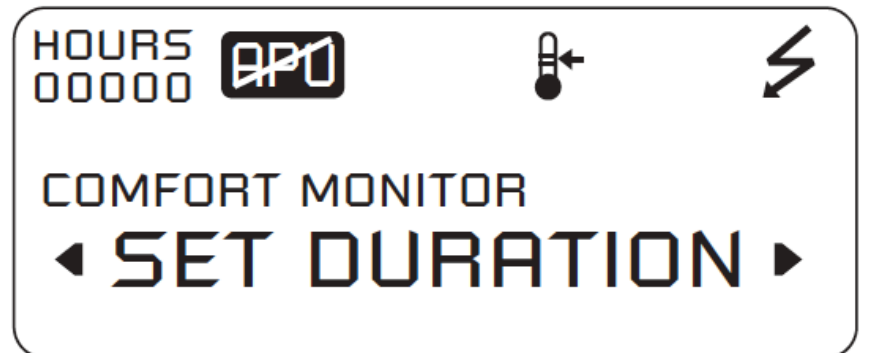
## Setting the Comfort Monitor TEMPERATURE

- 1 Press .
- 2 Press  or  until "**COMFORT MONITOR**" is displayed, then press .
- If "**ENTER PASSWORD**" is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).
- 3 Press  or  to display "**SET TEMP**".
- 4 Press  to confirm this setting. The current temperature is displayed.
- 5 Press  or  to scroll to the desired temperature.
- 6 Press  to confirm this setting. **Or** press  to cancel and retain the current temperature.
- 7 Press  to exit.



## Setting the DURATION in Comfort Monitor

- 1 Press .
- 2 Press  or  until "**COMFORT MONITOR**" is displayed, then press .
- If "**ENTER PASSWORD**" is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).
- 3 Press  or  to display "**SET DURATION**".
- 4 Press  to confirm this setting. The current duration is displayed.
- 5 Press  or  to scroll to the desired duration.
- 6 Press  to confirm this setting. **Or** press  to cancel and retain the current duration.
- 7 Press  to exit.



## 2.) USING THE TIMERS





You can set up the ComfortPro so that the APU and CCU run automatically for a specified time on specified days of the week. There are two timers, so you can set up two schedules.

For example, one schedule may be to run every day at 6:00 p.m. for .5 hours and the other schedule may be to run every Monday at 6.00 a.m. for .5 hours.




You must set up the timer as follows: Specify the day and time you want the APU to run, specify the duration (the length of time you want the APU to run for) and specify the temperature you want maintained in the truck bunk while the APU is running.

# USING THE TIMERS - CONT'D

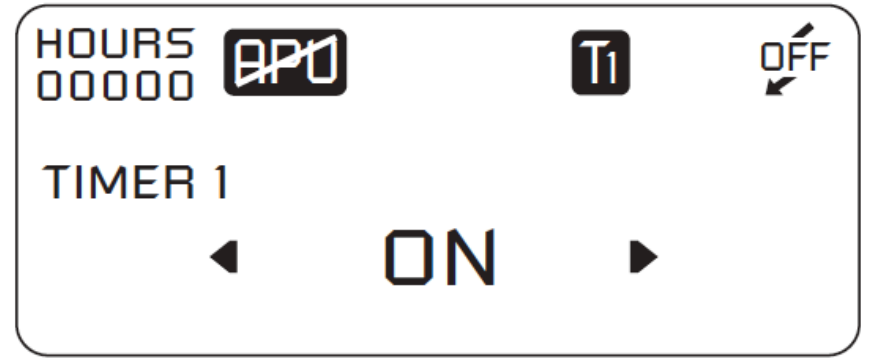
## Turning TIMER On or Off

- 1 Press .
- 2 Press  or  until **"TIMER 1"** or **"TIMER 2"** is displayed, then press .





If **"ENTER PASSWORD"** is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).

- 3 Press  or  to display **"ON"** or **"OFF"**.
- 4 Press  to confirm this setting.







The current setting remains until you change it; turning off the APU or manually starting the APU does not cancel the timer function.



## Setting the Start Time/Day





- 1 Press .
- 2 Press  or  until **"TIMER 1"** or **"TIMER 2"** is displayed, then press .

If **"ENTER PASSWORD"** is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).









- 3 Press  or  to display **"SET START"**.
- 4 Press  to confirm this setting. The current start time is displayed.
- 5 Press  or  to set the hours, minutes and day.
- 6 Press  to confirm each setting.



## Setting the DURATION

- 1 Press .
- 2 Press  or  until **"TIMER 1"** or **"TIMER 2"** is displayed, then press .

If **"ENTER PASSWORD"** is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).





- 3 Press  or  to display **"SET DURATION"**.
- 4 Press  to confirm this setting. The current duration time is displayed.
- 5 Press  or  to scroll to the length of time to run the APU.
- 6 Press  to confirm this setting. Or press  to cancel and retain the current duration.
- 7 Press  to exit.













## USING THE TIMERS - CONT'D

### Setting the TEMPERATURE for the Timer

- 1 Press .
- 2 Press  or  until **"TIMER 1" or "TIMER 2"** is displayed, then press .



If **"ENTER PASSWORD"** is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).





- 3 Press  or  to display **"SET TEMP"**.
- 4 Press  to confirm this setting. The current temperature is displayed.
- 5 Press  or  to scroll to the desired temperature.
- 6 Press  to confirm this setting. Or press  to cancel and retain the current temperature.
- 7 Press  to exit.

## 3.) USING BATTERY MONITOR

You can set up the APU so that it automatically runs for 90 minutes when the truck batteries are low.




When you set up this feature, you must enter the current voltage of the batteries (see "Set the Initial Voltage"). The ComfortPro can then calculate how much the voltage drops, as the batteries are used.

### Turning BATTERY MONITORING ON and OFF

- 1 Press .
- 2 Press  or  until **"BATTERY MONITOR"** is displayed, then press .



If **"ENTER PASSWORD"** is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).





- 3 Press  or  to display **"ON"** or **"OFF"**.
- 4 Press  to confirm this setting.

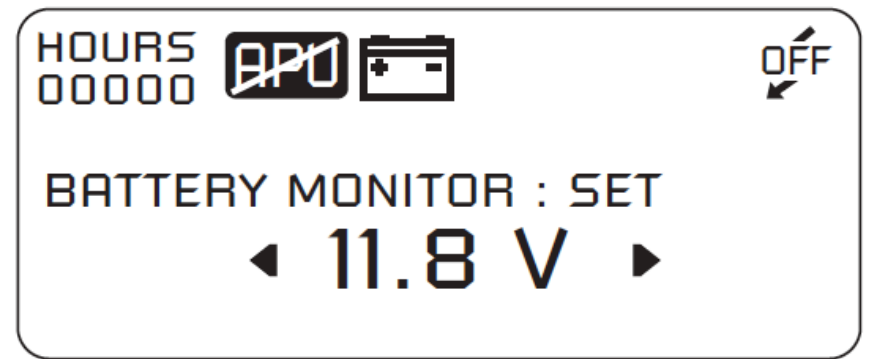
The current setting remains until you change it; turning off the APU or manually starting the APU does not permanently cancel this setting.

# BATTERY MONITOR - CONT'D









The APU starts if the battery voltage goes below the level you specify here.

## Setting the Voltage Level

- 1 Press .
- 2 Press  or  until **"BATTERY MONITOR"** is displayed, then press .



If **"ENTER PASSWORD"** is displayed, enter your password. If you do not know the password, then you cannot set up this function (see page 1-7).

- 3 Press  or  to display **"SET"**.
- 4 Press  to confirm this setting. The current voltage level is displayed and flashes.
- 5 Press  or  to scroll to the desired voltage.
- 6 Press  to confirm this setting. Or press  to cancel and retain the current voltage.
- 7 Press  to exit.

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