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## Simple to Determine: Cause of Alarm

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### Alarm Code Diagnostics (Continued):

- 43=Unit Forced to Low Speed Modulation
- 44=Fuel System Check
- 45=Hot Gas Circuit
- 46=Air Flow Check
- 48=Check Belts or Clutch
- 50=Reset Clock
- 51=Shutdown Circuit
- 52=Heat Circuit
- 53=Economizer Valve Circuit
- 54=Test Mode Time-out
- 55=Check Engine Speeds
- 61=Battery Check
- 62=Ammeter Out of Calibration Range
- 63=Engine Stopped - Reason Unknown
- 64=Pretrip Reminder
- 66=Low Oil Level
- 67=Liquid Line Solenoid
- 70=Hourmeters Exceed 99999
- 71=Maintenance Hourmeter 4
- 72=Maintenance Hourmeter 5
- 73=Maintenance Hourmeter 6
- 74=mP Reverted to Default Settings
- 75=Internal Fault Codes
- 76=Internal Fault Codes
- 77=Internal Fault Codes
- 78=Internal Fault Codes
- 79=Data Log Overflow
- 80=Compressor Temperature Sensor
- 81=High Compressor Temperature
- 82=High Compressor Temperature Shutdown
- 83=Low Coolant Temperature
- 84=Restart Null
- 85=Forced Unit Operation
- 87=Suction Pressure Transducer
- 89=Electronic Throttling Valve Circuit
- 109=High Discharge Pressure

**NOTE:** All alarm codes are not used on all units.

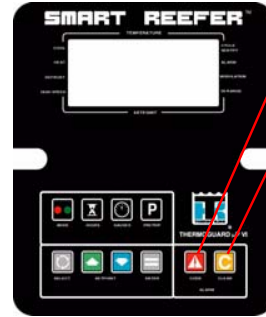
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## Simple to Clear: Alarm Codes

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1. Press the CODE  $\Delta$  key to see alarms one at a time.
2. Press the CLEAR (C) key for each alarm. After all alarms are cleared, the alarm symbol  $\Delta$  will disappear.

**NOTE:** Repair as required and document all alarm codes before clearing them.

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## Simple to Initiate: Start of Trip

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1. Press the P key three times until the letters SOT appear on the screen.
2. Press the Enter (=) key. The letters SOT appear on the screen.

# $\mu$ P VI Smart Reefer Microprocessor

## *Driver Guide to Simple Operation*

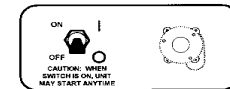
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## Simple to Start:

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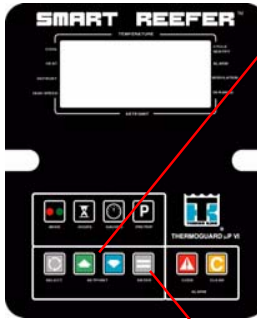
Move the unit On/Off switch to the ON

## Simple to Select Mode of Operation: **CYCLE-SENTRY or Continuous Run**



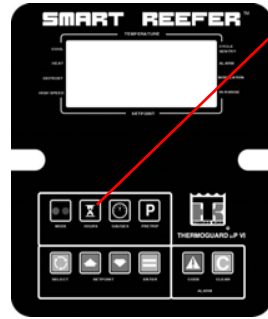
1. Press the Mode key until the CYCLS (CYCLE-SENTRY) prompt appears on the display.
2. Press either the up or down arrow keys to toggle between NO or YES (NO = Continuous Run mode, YES = CYCLE-SENTRY mode).
3. Press the Enter (=) key.

## Simple to Set: **Setpoint Temperature**



1. Press the Setpoint up or down arrow key until the setpoint is at the desired temperature setting.
  - a. Press and release either key repeatedly to change the temperature.
  - b. Hold either key down to cause the temperature to scroll automatically. The longer the key is held, the faster the temperature will scroll.
2. Press and release the Enter (=) key within 10 seconds to enter the new setpoint into the controller's memory.

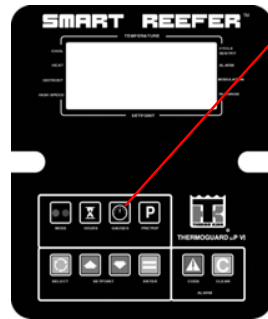
## Simple to Read: **Hourmeter**



Press the Hours key to display the unit hourmeters in the order shown below:  
 TLHR=Total switch on hours  
 ENHR=Total engine run hours  
 ELHR=Total electric run hours  
 HRM.4-HRM.6=Hourmeters 4 through 6. Function varies depending on programming.

**NOTE:** The hourmeters displayed may not always be as listed. Depending on programming, some of the hourmeters may not show.

## Simple to Check: **Gauges**



Press the Gauges key to display the unit gauges in the order shown below:  
 WATT=engine water temp  
 OILP=oil pressure  
 AMPs=amps  
 BATV=battery volts  
 RPM=engine rev/minute

CTMP=compressor temp, which will show only on Magnum units.

The following will show only on units with ETV:

SUC.P=suction pressure

DIS.P=discharge pressure

ETV.P=ETV position.

## Simple to Check: **Pre-Trip**



1. Press the P key. PrE TRIP will appear on the screen.
2. Press the Enter (=) key. PrE LOAD will appear on the screen.
3. The test will begin.
4. At the conclusion of the test, the test results are displayed as follows:



**[PASS TRIP] Green status light:** Unit is functioning properly.

**[CHECK TRIP] Amber status light:** Unit has a check alarm code(s). Have unit inspected!

**[FAIL TRIP] Alternately flashing green and amber status light:** Unit has a shutdown alarm code(s) and is NOT functioning properly. Have unit inspected immediately!

## Simple to Access: **Alarm Codes**



1. If the alarm symbol  $\Delta$  is displayed on the screen, press the CODE  $\Delta$  key. The alarm code will appear on the display.
2. To view remaining alarm codes, repeatedly press the CODE  $\Delta$  key.

## Simple to Determine: **Cause of Alarm**

### Alarm Code Diagnostics:

- 01=Power Up Reset
- 02=Evaporator Coil Sensor
- 03=Return Air Sensor
- 04=Discharge Air Sensor
- 05=Ambient Air Sensor
- 06=Engine Water Temperature Sensor
- 07=Engine RPM Sensor
- 09=High Evaporator Temperature
- 10=High Discharge Pressure
- 11=Unit Controlling on Discharge Air
- 12=Sensor Shutdown
- 13=Check Sensor Calibration
- 15=Glow Plug Check
- 17=Engine Failed to Crank
- 18=High Engine Water Temperature
- 19=Low Engine Oil Pressure
- 20=Engine Failed to Start
- 21=Cooling Cycle Check
- 22=Heating Cycle Check
- 23=Cooling Cycle Fault
- 24=Heating Cycle Fault
- 25=Alternator Check
- 26=Check Refrigeration Capacity
- 28=Pre-Trip Abort
- 29=Damper Circuit
- 31=Oil Pressure Switch
- 32=Refrigeration Capacity Low
- 33=Check Engine RPM
- 35=Run Relay Circuit
- 36=Electric Motor Failed to Run
- 37=Check Engine Water Level
- 38=Electric Phase Reversed
- 39=Water Valve
- 40=High Speed Circuit
- 41=Engine Water Temperature Check
- 42=Unit Forced to Low Speed

**NOTE:** All alarm codes are not used on all units.