

MANUAL DEFROST CYCLE

1. Turn the Zone 1/ Host Switch "on".
NOTE: The switch for the zone you intend to defrost must also be turned "on".
2. Press the Select key to display [dEF] for the desired zone.
3. Press the Enter key. The display will briefly show [LOAD], and then the unit will enter a defrost cycle. The defrost cycle will terminate automatically.

VIEWING PROMPT & DISPLAY SCREENS

1. Turn the Zone 1/ Host switch "on".
2. Press the Select key to view the prompt and display screens as follows:

[DEF1]	Defrost Prompt Zone 1
[CYCLS]	Cycle-Sentry Prompt
[Zone 2]	Standard Display Zone 2
[DEF2]	Defrost Prompt Zone 2
[Zone 3]	Standard Display Zone 3
[DEF3]	Defrost Prompt Zone 3
[AMB.T]	Ambient Air Temperature
[BATV]	Battery Voltage
[RPM]	Engine RPM
[HED.P]	Discharge Pressure
[RET.A]	Return Air Temp Zone 1
[DIS.A]	Discharge Air Temp Zone 1
[TPDF]	Temp Differential Zone 1
[COIL]	Coil Temp Zone 1
[RET.A]	Return Air Temp Zone 2
[DIS.A]	Discharge Air Temp Zone 2
[TPDF]	Temp Differential Zone 2
[COIL]	Coil Temp Zone 2
[RET.A]	Return Air Temp Zone 3
[COIL]	Coil Temp Zone 3

CHANGING THE SETPOINT

1. Turn all Zone Switches "on".
2. Press the Select Key to chose the zone to be changed.
3. Press the Up and Down Arrow keys to chose the new setpoint for the zone shown.
4. Press the Enter key. The display will briefly show [LOAD], and then the new setpoint will reappear.

SELECTING CYCLE-SENTRY OR CONTINUOUS MODE

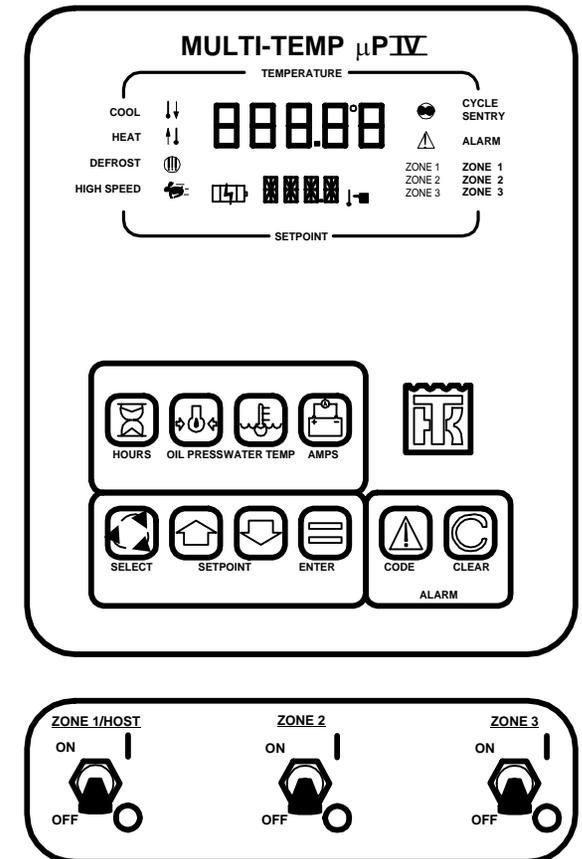
1. Turn the Zone 1/ Host switch "on".
2. Press the Select key to display [CYCLS] and [YES] or [nO].
3. Press the Up or Down Arrow key to select the desired mode. [YES] = Cycle-Sentry, [nO] = Continuous.
4. Press the Enter key. The display will briefly show [LOAD], and then the new mode will reappear.

STARTING THE ENGINE

1. Turn the Zone 1/ Host switch "on". If no other key is pressed, the engine will automatically preheat and start in about 10 seconds.

CAUTION: The engine starts automatically in either Cycle-Sentry or Continuous mode.

OPERATING THE THERMOGUARD MULTI-TEMP μ P-IV MICROPROCESSOR



Used on:
SB-III DE, SB-III TC/TCI,
Super-II TC/TCI, Spectrum DE,
Spectrum SB, & Spectrum Super-II

VIEWING & CLEARING ALARM CODES

1. If the Alarm Icon is “on”, alarm conditions have been detected.
2. Press the Code key. The Alarm Screen and Alarm Code will appear. Press the Code key again to display any additional alarm codes. Always record any alarm codes shown. They are invaluable to the service technician.
3. After the alarm condition has been corrected, press the Code key to display the alarm code again. When the alarm code is shown in the display, press the Clear key to clear the alarm.

RUNNING A PRETRIP TEST

1. Turn all Zone Switches “on”.
2. Clear any alarm codes that may exist.
3. Before the engine starts, press and hold the Thermo King Logo key for at least 3 seconds. The Pretrip prompt screen will appear.
4. Press the Enter key to start a Pretrip test. The display will briefly show [LOAD] and then the test will begin.
5. The test is fully automatic. When complete, [PASS], [CHEC] or [FAIL] will appear on the display.

ALARM CODES

00	No Alarms Exist
02	Check Evaporator Coil Sensor
03	Check (Control) Return Air Sensor
04	Check (Control) Discharge Air Sensor
05	Check Ambient Air Sensor
06	Check Coolant Temp Sensor
07	Check Engine RPM Sensor
08	Unit Running on Coil Sensor
09	High Evaporator Temperature
10	High Discharge Pressure
11	Unit Controlling on Alternate Sensor
12	Sensor or Digital Input Shutdown
13	Sensor Check
15	Check Glow Plugs or Intake Air Heater
17	Engine Failed to Crank
18	High Engine Coolant Temperature
19	Low Engine Oil Pressure
20	Engine Failed To Start
21	Cooling Cycle Check
22	Heating Cycle Check
25	Alternator Check
26	Check Refrigeration Capacity
28	Pretrip Abort
29	Defrost Damper Circuit Check
30	Defrost Damper Stuck Closed
31	Check Oil Pressure Switch
32	Refrigeration Capacity Low
33	Check Engine RPM
35	Check Run Relay Circuit
36	Electric Motor Failed To Run
37	Check Engine Coolant Level
40	Check High Speed Circuit
41	Check Engine Coolant Temperature
42	Unit Forced to Low Speed
44	Check Fuel System
45	Check Hot Gas or Hot Gas Bypass Circuit
47	Remote Sensor Shutdown
48	Check Belts or Clutch
50	Reset Clock
52	Check Heat Circuit
54	Test Mode Timeout
55	Check Engine Speeds

ALARM CODES

61	Low Battery Voltage
62	Ammeter Out of Calibration
63	Engine Stopped
64	Pretrip Reminder
66	Low Engine Oil Level
67	Check Liquid Line Solenoid
68	Internal Controller Fault Code
70	Hourmeters Failure
73	Hourmeter 6 Exceeds Set Time Limit
74	Controller Reset to Defaults
75	Controller RAM Failure
76	Controller EPROM Failure
77	Controller EPROM Checksum Failure
78	Data Log EPROM Failure
79	Internal Data Log Overflow
105	Check Receiver Tank Pressure Sol Circuit
106	Check Purge Valve Circuit
107	Check Condenser Inlet Sol Circuit
108	Door Open Timeout
109	Check High Discharge Pressure Sensor
110	Check Suction Line Sol Circuit
111	Unit Not Configured Correctly
112	Check Remote Fans
113	Check Electric Heat Circuit
114	Multiple Alarms - Can Not Run

ADDITIONAL INFORMATION

For additional information consult the following Thermo King manuals for your unit.

Operating Manual

Maintenance Manual

Parts Manual

Operation and Diagnosis Manual