THERMO KING® TRUCK, TRAILER, CR, DAS, DSR ALARM CODES

THIS DOCUMENT SHOWS ALL CURRENT TRUCK, TRAILER, CR, DAS, AND DSR ALARM CODES. NOT ALL CODES ARE POSSIBLE ON ALL UNITS.

IF THE ALARM APPLIES TO A MULTI-TEMP ZONE, THAT ZONE WILL BE IDENTIFIED.

BE SURE TO RECORD ALL ALARMS THAT OCCUR. THEY ARE VALUABLE TO THE SERVICE TECHNICIAN.

ALARM CODE NUMBERS MARKED WITH PARTENTHESIS (XX) MAY EXIST WITH ALARM CODE 84 AND MAY CLEAR AUTOMATICALLY.

COLOR CODE DEFINITIONS

OK TO RUN

CHECK AS SPECIFIED

TAKE IMMEDIATE ACTION

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| Check Run Relay Circuit | | | | | da. |
| Electric Motor Failed to Run | | | | | |
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| Report alarm at end of day. Forced Unit Operation Report alarm at end of day. Report alarm at end of day. Check Discharge Pressure Sensor Report alarm at end of day. Check Suction Pressure Sensor Report alarm at end of day. Reserved for CR Check Electronic Throttling Valve (ETV) Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | <u> </u> | WOW!! | | |
| 86 Check Discharge Pressure Sensor Report alarm at end of day. 87 Check Suction Pressure Sensor Report alarm at end of day. 88 Reserved for CR 89 Check Electronic Throttling Valve (ETV) Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. | 84 | Restart Null | | Report alarm at end of day. | |
| 87 Check Suction Pressure Sensor Report alarm at end of day. 88 Reserved for CR 89 Check Electronic Throttling Valve (ETV) Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | | |
| 88 Reserved for CR 89 Check Electronic Throttling Valve (ETV) Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | | |
| 89 Check Electronic Throttling Valve (ETV) Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | JUI | report alaim at Gilu of day. | |
| 90 Electric Overload If unit is shut down repair immediately. Otherwise, report alarm at end of day. | 89 | Check Electronic Throttling V | alve (ETV) Circuit | | į |
| | 90 | Electric Overload | | If unit is shut down repair immediately. Otherwise, repo | rt alarm at end of day. |

COLOR CODE DEFINITIONS CHECK AS SPECIFIED OK TO RUN TAKE IMMEDIATE ACTION THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS. Color Description Num **Operator Action** Check Electric Ready Input If unit is shut down repair immediately. Otherwise, report alarm at end of day. 91 92 Sensor Grades Not Set (Zone) Report alarm at end of day. If unit is shut down repair immediately. Otherwise, report alarm at end of day 93 Low Compressor Suction Pressure Check Loader #1 Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. 94 95 Check Loader #2 Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. Low Fuel Level Add fuel as required. 96 Failed Remote Return Air Sensor (CR) If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day. 97 Check Fuel Level Sensor 98 Report alarm at end of day. If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day 99 High Compressor Pressure Ratio Heater Fan Failure (CR) If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day (100)101 Controlling on Evap Coil Outlet Temp (CR) Manually monitor temperature. Report alarm at end of day (102)Low Evaporator Coil Temperature (CR) If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day. Low Heater Fuel Level (CR) Manually monitor temperature. Report alarm at end of day. 103 Check Remote Fan Speed (Zone) Manually monitor temperature. Report alarm at end of day. 104 Check Receiver Tank Press Sol Circuit 105 If unit is shut down repair immediately. Otherwise, report alarm at end of day. If unit is shut down repair immediately. Otherwise, report alarm at end of day. 106 Check Purge Valve Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. 107 Check Condenser Inlet Sol Circuit 108 Door Open Timeout (Zone) Close doors. Report alarm at end of day. Replaced by Alarm Code 86 Check High Discharge Pressure Sensor 109 Check Suction Line Sol Circuit (Zone) If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day. 110 Report alarm at end of day. Unit Not Configured Correctly (Zone) 111 Check Remote Fans (Zone) If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day 112 Check Electric Heat Circuit (Zone) Manually monitor temperature. Report alarm at end of day 113 Multiple Alarms - Can Not Run (Zone) Unit/zone cannot operate and is shut down. Repair immediately. 114 If unit is shut down repair immediately. Otherwise, report alarm at end of day. Check High Pressure Cut Out Switch 115 Report alarm at end of day. 116 Check High Pressure Cut In Switch Auto Switch from Diesel to Electric Normal operation – does not affect performance. 117 118 Auto Switch from Electric to Diesel Normal operation – does not affect performance Reserved for CR 119 If unit is shut down repair immediately. Otherwise, report alarm at end of day. 120 Check Alternator Excite Circuit Check PMW Liquid Injection Circuit If unit is shut down repair immediately. Otherwise, report alarm at end of day. 121 If unit is shut down repair immediately. Otherwise, report alarm at end of day. Check Diesel/Electric Circuit 122 Check Evap Coil Inlet Temp Sensor (CR) Manually monitor temperature. Report alarm at end of day. 123 124 Check Evap Coil Outlet Temp Sensor (CR) Report alarm at end of day. Check Tank Level Sensor (CR) If unit is shut down repair immediately. Otherwise, report alarm at end of day 125 Check Back Pressure Regulator (CR) Manually monitor load temperature. Report this alarm at the end of the day. 126 Be sure setpoint is adjusted to required temperature. Setpoint Not Entered (Zone) 127 Engine Run Time Maint Reminder #1/Service Due Report alarm at end of day. 128 129 Engine Run Time Maint Reminder #2 Report alarm at end of day. Electric Run Time Maint Reminder #1 130 Report alarm at end of day. Report alarm at end of day. Electric Run Time Maint Reminder #2 131 Total Unit Run Time Maint Reminder #1 Report alarm at end of day. 132 Total Unit Run Time Maint Reminder #2 Report alarm at end of day. 133 Report alarm at end of day. Controller Power On Hours 134 **Check Spare Digital Inputs** Report alarm at end of day. 135 Report alarm at end of day. 136 **Check Spare Digital Outputs** 137 Check Damper Motor Heater Output If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day Log DAS Real Time Clock Battery Failure (DAS) 138 Report alarm at end of day. 139 Abort Evacuation Mode Report alarm at end of day. 140 Not currently used 141 Auto Switch Diesel to Electric Disabled Report alarm at end of day. If unit is shut down repair immediately. Otherwise, report alarm at end of day. 142 Check Thermax Valve Check Remote Drain Hose Heater Output (Zone) 143 Report alarm at end of day. Unit cannot operate and is shut down. Repair immediately. Lost CAN Communications to Expansion Module 144 Lost Controller ON Feedback Signal If unit is shut down repair immediately. Otherwise, report alarm at end of day. 145 Software Version Mismatch Report alarm at end of day. 146 Check Multi-Temp Fan Speed Control Output (Zone) Manually monitor load temperature. Report this alarm at the end of the day. 147 Auto Switch Electric to Diesel Disabled Report alarm at end of day. 148 149 Alarm Not Identified If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day Sensor Out of Range Low (DAS and HMI) (Zone) 150 Report alarm at end of day. Sensor Out of Range High (DAS and HMI) (Zone) Report alarm at end of day. 151 DAS Failed Sensor (DAS) 152 Report alarm at end of day. Expansion Module Flash Load Failure 153 Report alarm at end of day. Low Suction Pressure Switch Failure If unit is shut down repair immediately. Otherwise, report alarm at end of day. 154 Unit cannot operate and is shut down. Repair immediately. 155 Lost CAN Communications to HMI Check Suction/Liquid Heat Exchanger Bypass Valve If unit is shut down repair immediately. Otherwise, report alarm at end of day. 156 OptiSet Plus Profile Mismatch 157 Report alarm at end of day. Primary Software Failed to Load Report alarm at end of day. 158 **Check Battery Condition** Report alarm at end of day 159 160 Lost CAN Communications to Radio Expansion Board Report alarm at end of day. 161 Log DAS Real Time Clock Invalid (DAS) Report alarm at end of day. **Emission Control Failure** If unit is shut down repair immediately. Otherwise, report alarm at end of day. 163 165 Low Engine Power Available Report alarm at end of day Check Electronic Expansion Valve (CR) If unit is shut down repair immediately. Otherwise, report alarm at end of day 175 176 Check Evaporator Pressure Sensor (CR) If unit is shut down repair immediately. Otherwise, report alarm at end of day. Check CO₂ Tank Pressure Sensor (CR) If unit is shut down repair immediately. Otherwise, report alarm at end of day. 177 178 Low CO₂ Fuel Level (CR) If unit is shut down repair immediately. Otherwise, report alarm at end of day. TriPac Compressor Alarm If unit is shut down repair immediately. Otherwise, report alarm at end of day. 180 Log DAS Microprocessor Fault (DAS) Report alarm at end of day. 188 Check Display Return Air Sensor (Zone) Manually monitor temperature. Report alarm at end of day. 203 Manually monitor temperature. Report alarm at end of day. 204 Check Display Discharge Air Sensor (Zone) 216 Check DAS Digital Inputs (DAS) Report alarm at end of day. REB Switching Off, Conservative to Full Null Report alarm at end of day 233 234 Check Relative Humidity Sensor Circuit Report alarm at end of day 235 High Engine Coolant Temperature Check Report alarm at end of day. Report alarm at end of day. 250 DAS Clock Time Reset (DAS) Check Radio Expansion Board Configuration 251 Report alarm at end of day. Check Auto Fresh Air Exchange Circuit 252 Report alarm at end of day. REB On Back Up Battery, Alarms Disabled Report alarm at end of day. 253 254 Check Auxiliary Coolant Temp Sensor Report alarm at end of day.

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THERMO KING PRECEDENT® 500 SERIES ALARM CODES

The 500 Series Thermo King Alarm Codes shown below are used on Thermo King Precedent applications.

| Num Color Description Operator Action The Example 1 Description Operator Action Operator Action Operator Action Not implemented Check Host Evaporator Blower Low Speed Not implemented Check Host Evaporator Blower High Speed Not implemented Check Roadside Condenser Fan Motor Speed Circuit If unit is shut down repair immediately. Otherwise, respectively. Otherwise, respectively. Otherwise, respectively. | eport alarm at end of day. eport alarm at end of day. |
|--|--|
| 500 Check Host Evaporator Blower Low Speed Not implemented 501 Check Host Evaporator Blower High Speed Not implemented 505 Check Roadside Condenser Fan Motor Speed Circuit If unit is shut down repair immediately. Otherwise, re | eport alarm at end of day. |
| Check Host Evaporator Blower High Speed Check Roadside Condenser Fan Motor Speed Circuit If unit is shut down repair immediately. Otherwise, re | eport alarm at end of day. |
| 505 Check Roadside Condenser Fan Motor Speed Circuit If unit is shut down repair immediately. Otherwise, re | eport alarm at end of day. |
| | eport alarm at end of day. |
| 506 Check Curbside Condenser Fan Motor Speed Circuit If unit is shut down repair immediately. Otherwise. re | |
| | eport alarm at end of day. |
| Check Digital Scroll Output Circuit (Scroll Only) If unit is shut down repair immediately. Otherwise, re | |
| 508 Speed Request Communication Error Report alarm at end of day. | |
| 509 ECU Failed to Enable If unit is shut down repair immediately. Otherwise, re | eport alarm at end of day. |
| 510 ECU Run Signal Failed If unit is shut down repair immediately. Otherwise, re | eport alarm at end of day. |
| 511 Engine Wait to Start Time Delay Expired Report alarm at end of day. | |
| 512 High Compressor Suction Pressure (Scroll Only) If unit is shut down repair immediately. Otherwise, re | • |
| 513 Low Compressor Suction Ratio (Scroll Only) If unit is shut down repair immediately. Otherwise, re | |
| 514 Low Compressor Discharge Pressure (Scroll Only) If unit is shut down repair immediately. Otherwise, re | |
| 515 Minimum ETV Discharge Superheat Temp (Scroll) If unit is shut down repair immediately. Otherwise, re | |
| 516 I/O Controller to Application Controller Com Failure The unit is no longer able to operate and has been s | |
| 518 Generator Ground Fault If unit is shut down repair immediately. Otherwise, re | · · · · · · · · · · · · · · · · · · · |
| 519 Check Battery Charger Input Power If unit is shut down repair immediately. Otherwise, re | |
| 520 Check Battery Charger Output Power If unit is shut down repair immediately. Otherwise, re | • |
| Battery Charger External/Environmental Fault If unit is shut down repair immediately. Otherwise, re | |
| Battery Temperature Sensor Alarm If unit is shut down repair immediately. Otherwise, re | |
| Battery Charger Indicated Conditions If unit is shut down repair immediately. Otherwise, re | · |
| Generator Op Limit V _{out} to Frequency Ration If unit is shut down repair immediately. Otherwise, re | |
| Generator Frequency Range Fault If unit is shut down repair immediately. Otherwise, re | • |
| Generator Operational Limit Output Current If unit is shut down repair immediately. Otherwise, re | |
| 528 Failed J1939 CAN Comm Base Controller/Charger If unit is shut down repair immediately. Otherwise, re 529 Check Fuel Pump Circuit If unit is shut down repair immediately. Otherwise, re | |
| | • |
| 530 Low Pressure Differential (Scroll only) If unit is shut down repair immediately. Otherwise, re 531 Check Economizer Pressure Sensor (Scroll only) If unit is shut down repair immediately. Otherwise, re | |
| | |
| 538 Engine J1939 CAN Data Link Degraded If unit is shut down repair immediately. Otherwise, re 539 Engine J1939 CAN Data Link Failed If unit is shut down repair immediately. Otherwise, re | |
| 540 Illegal Engine Operating State If unit is shut down repair immediately. Otherwise, re | |
| 542 Battery Charger Fault – Unit Forced to Low Speed Maintenance information only. Report alarm at end of | |
| 543 Battery Charger Internal Short Maintenance information only. Report alarm at end of the short Maintenance information only. Report alarm at end of the short Maintenance information only. | |
| 544 Battery Charger External Short Maintenance information only. Report alarm at end of Maintenance information only. Report alarm at end of Maintenance information only. | • |
| 545 Battery Charger Output Voltage Exceeded Limit Maintenance information only. Report alarm at end of | |
| 546 Battery Charger Operating Bulk Voltage Out of Range Maintenance information only. Report alarm at end of | • |
| 547 AC Bus Phase Loss If unit is shut down repair immediately. Otherwise, re | |
| 548 Battery Charger Temperature Below Operating Range Maintenance information only. Report alarm at end of | , |
| 549 Battery Charger AC Input Overvoltage Maintenance information only. Report alarm at end of | |
| 550 Battery Charger Internal Overvoltage Fault If unit is shut down repair immediately. Otherwise, re | |
| 551 Battery Charger Internal Temp Sensor Fault | - |
| 552 Battery Charger Charging – Low Battery | |
| 553 Battery Charger Operating Derated Due to High temp | |
| 570 Clean EGR Soon Report alarm at end of day. | |
| 599 Engine Service Tool Connected Report alarm at end of day. | |

PRECEDENT 600 SERIES YANMAR DIAGNOSTIC TROUBLE CODES (DTC)

If the Yanmar Engine Control Unit (ECU) determines an engine related problem exists, one or more Yanmar Diagnostic Trouble Codes (DTC's) will be set by the ECU. As a result, one or more Thermo King 6xx codes will also be set and displayed on the HMI Control Panel and the ServiceWatch Data Logger as shown below.

| COLOR CODE DEFINITIONS OK TO RUN | | | CHECK AS SPECIFIED TAKE IMMEDIATE ACTION | | | |
|--|-------|---------------------------------------|---|--|--|--|
| THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS. | | | | | | |
| Num | Color | Description | Operator Action | | | |
| 600 | | Check Crankshaft Speed Sensor | Report alarm at end of day. | | | |
| 601 | | Check Camshaft Speed Sensor | Report alarm at end of day. | | | |
| 602 | | Check Intake Throttle Position Sensor | Report alarm at end of day. | | | |
| 603 | | Check Exhaust Pressure Sensor | Report alarm at end of day. | | | |
| 604 | | Check Coolant Temp Sensor | Report alarm at end of day. | | | |
| 605 | | Check Fresh Air Temp Sensor | Report alarm at end of day. | | | |
| 607 | | Check Fuel Temperature Sensor | Report alarm at end of day. | | | |
| 608 | | Check Rail Pressure Sensor | Report alarm at end of day. | | | |
| 609 | | Check Intake Pressure Sensor | Report alarm at end of day. | | | |
| 610 | | Check Atmospheric Pressure Sensor | Report alarm at end of day. | | | |
| 611 | | Check Glow Plug Circuit | Report alarm at end of day. | | | |
| 612 | | Check Intake Throttle Circuit | Report alarm at end of day. | | | |
| 613 | | Check Injectors | Report alarm at end of day. | | | |
| 614 | | Check High Pressure Fuel Pump | Report alarm at end of day. | | | |
| 615 | | Rail Pressure Fault | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | |
| 616 | | Engine Overspeed | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | |
| 617 | | Internal ECU Fault | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | |
| 618 | | Check EGR System | Report alarm at end of day. | | | |
| 619 | | ECU Main Relay Fault | Report alarm at end of day. | | | |
| 620 | | No RPM Detected During Start Attempt | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | |
| 623 | | TRUCAN Message Timeout | Report alarm at end of day. | | | |
| 624 | | Check EGR Temperature Sensor | Report alarm at end of day. | | | |
| 625 | | Check Intake Air Temperature Sensor | Report alarm at end of day. | | | |
| 626 | | Check Exhaust Temperature Sensor | Report alarm at end of day. | | | |
| 642 | | ECU Forced Low Speed | Report alarm at end of day. | | | |
| 699 | | Unknown ECU Fault | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | |

DIRECT SMART REEFER (DSR) ALARM CODES The DSR Series Thermo King Alarm Codes shown below are used on Thermo King Direct Smart Reefer applications.

| COLOR CODE DEFINITIONS OK TO RUN | | | RUN CHECK AS SPECIFIED TAKE IMMEDIATE ACTION | | | | |
|----------------------------------|--|---|--|--|--|--|--|
| | THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS. | | | | | | |
| Code | Color | Description | Operator Action | | | | |
| P1E | | Return Air Temperature Sensor Fault | Report alarm at end of day. | | | | |
| P2E | | Remote Return Air Temperature Sensor Fault | Report alarm at end of day. | | | | |
| OL | | Electric Standby Overload | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| bAt | | Low Battery Voltage | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| HP | | High Discharge Pressure | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| LP | | Low Suction Pressure | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| PSE | | High Pressure Sensor Fault | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| tEP | | Electric Standby Motor Thermal Protection Alarn | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| tP4 | | Power Supply Thermal Protection Alarm | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| dr1 | | Door 1 Open/Door Switch 1 Failure | Close door. Report alarm at end of day. | | | | |
| dr2 | | Door 2 Open/Door Switch 2 Failure | Close door. Report alarm at end of day. | | | | |
| tCO | | Electronic Control Module Internal Temperature | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| | | Exceeds Limit | | | | | |
| SOF | | Microprocessor Software Failure | If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |
| - C - | | Communications Failure, Microprocessor to In-C Control Box | ab If unit is shut down repair immediately. Otherwise, report alarm at end of day. | | | | |

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