

THERMO KING TRUCK, TRAILER, CR, DAS, AND 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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THESE ARE SUGGESTIONS ONLY. ALWAYS CONSULT YOUR COMPANY FOR FINAL DECISIONS.

Num	Color	Description	Operator Action
00		No Alarms Exist	No action required.
02		Check Evaporator Coil Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
03		Check (Control) Return Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
04		Check (Control) Discharge Air Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
05		Check Ambient Temp Sensor	Report alarm at end of day.
06		Check Coolant Temp Sensor	Report alarm at end of day.
07		Check Engine RPM Sensor	Report alarm at end of day.
08		Unit Running on Coil Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
(09)		High Evaporator Temperature (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(10)		High Discharge Pressure (or Temperature)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
11		Unit or Zone Controlling on Alternate Sensor (Zone)	Manually monitor temperature. Report alarm at end of day.
12		Sensor or Digital Input Shutdown (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
13		Sensor Check (Zone)	Manually monitor temperature. Report alarm at end of day.
14		Defrost Terminated by Time	Report alarm at end of day.
15		Check Glow Plugs or Intake Air Heater	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
16		Manual Start Not Completed	Report alarm at end of day.
(17)		Engine Failed to Crank	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
(18)		High Engine Coolant Temperature	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
(19)		Low Engine Oil Pressure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
(20)		Engine (Vapor Motor CR) Failed to Start	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(21)		Cooling Cycle Check (Zone)	Manually monitor temperature. Report alarm at end of day.
(22)		Heating Cycle Check (Zone)	Manually monitor temperature. Report alarm at end of day.
23		Cooling Cycle Fault (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
24		Heating Cycle Fault (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
25		Alternator Check	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
(26)		Check Refrigeration Capacity (Zone)	Manually monitor temperature. Report alarm at end of day.
(27)		Vapor Motor RPM High (CR)	Unit cannot operate and is shut down. Repair immediately.
28		Pretrip or Self Check Abort	Report alarm at end of day.
29		Defrost Damper Circuit Check (Zone)	Manually monitor temperature. Report alarm at end of day.
30		Defrost Damper Stuck Closed (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
31		Check Oil Pressure Switch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
32		Refrigeration Capacity Low (Zone)	Unit/zone cannot operate and is shut down. Repair immediately.
33		Check Engine RPM	Report alarm at end of day.
34		Check Modulation Circuit	Manually monitor temperature. Report alarm at end of day.
35		Check Run Relay Circuit	Unit cannot operate and is shut down. Repair immediately.
(36)		Electric Motor Failed to Run	Unit cannot operate and is shut down. Repair immediately. Switch to Diesel Mode
37		Check Engine Coolant Level	Report alarm at end of day.
38		Electric Phase Reversed	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
39		Check Water Valve Circuit	Manually monitor temperature. Report alarm at end of day.
40		Check High Speed Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
41		Check Engine Coolant Temp	Report alarm at end of day.
42		Unit Forced to Low Speed	Report alarm at end of day.
43		Unit Forced to Low Speed Modulation	Report alarm at end of day.
44		Check Fuel System	Add fuel as necessary. Otherwise, report alarm at end of day.
45		Check Hot Gas or Hot Gas Bypass Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
46		Check Air Flow (Zone)	Manually monitor temperature. Report alarm at end of day.
47		Remote Sensor Shutdown	Unit/zone cannot operate and is shut down. Repair immediately.
48		Check Belts or Clutch	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
49		Check Spare Sensor 1	Report alarm at end of day.
50		Reset Clock	Report alarm at end of day.
51		Check Shutdown Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
52		Check Heat Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
53		Check Economizer Valve Circuit	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
54		Test Mode Timeout	Clear alarm and restart unit.
55		Check Engine Speeds	Report alarm at end of day.
56		Check Evaporator Fan Low Speed (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
57		Check Evaporator Fan High Speed (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
61		Low Battery Voltage	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
62		Ammeter Out of Calibration	Unit cannot operate and is shut down. Repair immediately.
(63)		Engine or Vapor Motor Stopped	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
64		Pretrip Reminder	Report alarm at end of day.
65		Abnormal Temperature Differential (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
66		Low Engine Oil Level	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
67		Check Liquid Line Solenoid Circuit (Zone)	If unit/zone is shut down repair immediately. Otherwise, report alarm at end of day.
68		Internal Controller Fault Code	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
70		Hourmeter Failure	Report alarm at end of day.
71		Hourmeter 4 Exceeds Set Time Limit	Report alarm at end of day.
72		Hourmeter 5 Exceeds Set Time Limit	Report alarm at end of day.
73		Hourmeter 6 Exceeds Set Time Limit	Report alarm at end of day.
74		Controller Reset to Defaults	Report alarm at end of day.
75		Controller RAM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
76		Controller EPROM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
77		Controller EPROM Checksum Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
78		Data Log EPROM Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
79		Internal Data Logger Overflow	Report alarm at end of day.
80		Check Compressor Temp Sensor	Report alarm at end of day.
81		High Compressor Temp	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
82		High Compressor Temp Shutdown	Unit cannot operate and is shut down. Repair immediately.
83		Low Engine Coolant Temp	Report alarm at end of day.
84		Restart Null	Report alarm at end of day.
85		Forced Unit Operation	Report alarm at end of day.
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.
90		Electric Overload	If unit is shut down repair immediately. Otherwise, report alarm at end of day.

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

THERMO KING PRECEDENT 500 SERIES ALARM CODES

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

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
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, report alarm at end of day.
506		Check Curbside Condenser Fan Motor Speed Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
507		Check Digital Scroll Output Circuit (Scroll Only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
508		Speed Request Communication Error	Report alarm at end of day.
509		ECU Failed to Enable	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
510		ECU Run Signal Failed	If unit is shut down repair immediately. Otherwise, report 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, report alarm at end of day.
513		Low Compressor Suction Ratio (Scroll Only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
514		Low Compressor Discharge Pressure (Scroll Only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
515		Minimum ETV Discharge Superheat Temp (Scroll)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
516		I/O Controller to Application Controller Com Failure	The unit is no longer able to operate and has been shut down. Repair immediately.
518		Generator Ground Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
519		Check Battery Charger Input Power	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
520		Check Battery Charger Output Power	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
521		Battery Charger External/Environmental Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
522		Battery Temperature Sensor Alarm	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
523		Battery Charger Indicated Conditions	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
524		Generator Op Limit V _{out} to Frequency Ration	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
525		Generator Frequency Range Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
526		Generator Operational Limit Output Current	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
528		Failed J1939 CAN Comm Base Controller/Charger	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
529		Check Fuel Pump Circuit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
530		Low Pressure Differential (Scroll only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
531		Check Economizer Pressure Sensor (Scroll only)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
538		Engine J1939 CAN Data Link Degraded	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
539		Engine J1939 CAN Data Link Failed	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
540		Illegal Engine Operating State	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
542		Battery Charger Fault – Unit Forced to Low Speed	Maintenance information only. Report alarm at end of day.
543		Battery Charger Internal Short	Maintenance information only. Report alarm at end of day.
544		Battery Charger External Short	Maintenance information only. Report alarm at end of day.
545		Battery Charger Output Voltage Exceeded Limit	Maintenance information only. Report alarm at end of day.
546		Battery Charger Operating Bulk Voltage Out of Range	Maintenance information only. Report alarm at end of day.
547		AC Bus Phase Loss	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
548		Battery Charger Temperature Below Operating Range	Maintenance information only. Report alarm at end of day.
549		Battery Charger AC Input Overvoltage	Maintenance information only. Report alarm at end of day.
550		Battery Charger Internal Overvoltage Fault	If unit is shut down repair immediately. Otherwise, report alarm at end of day.
551		Battery Charger Internal Temp Sensor Fault	
552		Battery Charger Charging – Low Battery	
553		Battery Charger Operating Derated Due to High temp	
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.
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.
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.

PRECEDENT 800 SERIES PEUGEOT DIAGNOSTIC TROUBLE CODES (DTC)

If the Peugeot Engine Control Unit (ECU) determines an engine related problem exists, one or more Peugeot Diagnostic Trouble Codes (DTC's) will be set by the ECU. As a result, one or more Thermo King 8xx 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	
800		Crankshaft Position Sensor Error	Report alarm at end of day.	
801		Camshaft Position Sensor Error	Report alarm at end of day.	
804		Engine Coolant Temperature Sensor Error	Report alarm at end of day.	
807		Fuel Temperature Sensor Error	Report alarm at end of day.	
808		Rail Pressure Sensor Error	Report alarm at end of day.	
809		Intake Air Pressure Sensor Error	Report alarm at end of day.	
810		Atmospheric Pressure Sensor Error	Report alarm at end of day.	
811		Glow Plug Circuit Error	Report alarm at end of day.	
813		General Injector Error	Report alarm at end of day.	
815		Fuel Pressure Regulator Error	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
818		EGR Valve Actuator Error	Report alarm at end of day.	
819		ECU Power Relay Error	Report alarm at end of day.	
820		Main ECU Relay Error	Report alarm at end of day.	
825		T1 Air Intake Temperature Sensor Error	Report alarm at end of day.	
826		T2 Air Intake Temperature Sensor Error	Report alarm at end of day.	
827		EGR Valve Position Sensor Error	Report alarm at end of day.	
828		Lambda System Error	Report alarm at end of day.	
829		Engine Communication Error	Report alarm at end of day.	
830		Air Flow Meter Error	Report alarm at end of day.	
832		Engine Power Supply Error	Report alarm at end of day.	
833		High Pressure Pump Fuel Metering Unit Error	Report alarm at end of day.	
834		Water in Fuel Sensor Error	Report alarm at end of day.	
836		Major ECU Failures	Report alarm at end of day.	
838		Intake Air System Error	Report alarm at end of day.	
839		Engine Speed Error	Report alarm at end of day.	
840		Fuel Injection Energizing Error	Report alarm at end of day.	
841		High Pressure Pump Wear	Report alarm at end of day.	
842		Engine Running in Safe Mode – Low Speed	Report alarm at end of day.	
843		Fuel Injection System Error	Report alarm at end of day.	
844		Engine Failed to Crank	Report alarm at end of day.	
845		Starter Relay Error	Report alarm at end of day.	
846		T50 Switch Error	Report alarm at end of day.	
847		Variant Coding Error	Report alarm at end of day.	
853		Engine Overspeed (No DTC)	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
854		Engine Protection Self Shutdown	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
899		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	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 Alarm	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 Exceeds Limit	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
SOF		Microprocessor Software Failure	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	
- C -		Communications Failure, Microprocessor to In-Cab Control Box	If unit is shut down repair immediately. Otherwise, report alarm at end of day.	